KENWOOD

UD COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

UD-703
UD-753

INSTRUCTION MANUAL

KENWOOD CORPORATION

This manual contains instructions for two models. There are differences in some of the features (functions). Refer to the descriptions of your resective model respectively.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on the product.

Model_____Serial Number_____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost. Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.
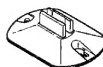
Accessories

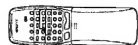FM indoor antenna .... (1)   AM loop antenna .... (1)   Loop antenna stand .. (1)

Antenna adaptor .... (1)   Remote control unit .. (1)   Batteries (R03/AAA) .. (2)
(For U.K. and Europe)

Speaker cord .... (2)   AC plug adaptor .... (1)   Parallel cord .... (Thick :1)
                                     (Except for the U.S.A.,   (Thin :1)
                                     Canada, Europe, U.K.
                                     and Australia)

                                     For the unit with a European AC plug
                                     in areas other than Europe.

COMPACT disc DIGITAL AUDIO

NOTE
Do not transport the system with a CD left in it.

B60-2066-00 (SI) (K, P, T) (MC)

Before applying power
⚠ Caution : Read this page carefully to ensure safe operation.

UD-703/753 (En)

Units are designed for operation as follows.

2

U.S.A. and Canada .... AC 120 V only

Australia .... AC 240 V only

Europe and U.K. .... AC 230 V only

Other countries .... AC 110-120 / 220 / 230-240 V switchable

---

For the United Kingdom

Factory fitted moulded mains plug

1. The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.

2. The fuse cover must be refitted when replacing the fuse in the moulded plug.

3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer.
   If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:

Blue   :Neutral
Brown :Live

Do not connect those leads to the earth terminal of a three-pin plug.

Safety precautions

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

⚡ **CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN ⚠	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
⚡	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
⚠	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The marking of products using lasers
(Except for some areas)

**CLASS 1
LASER PRODUCT**

The label is attached to the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Special features

L.L.C. (Low Level Control)-[19]

When you want to listen at a low volume, for example in the night time, the sound level can be reduced with a one-touch operation. While the level is low, the insufficiency in the base and treble levels felt by human hearing are automatically compensated.
The volume can be varied freely even while the listening at a low level.

SOURCE DIRECT-[19]

The reproduced sound can be enjoyed with absolute purity as unnecessary circvitry is by-passed.

Dynamic rotary volume control-[19]

When adjusting the volume, the amount of volume variation is variable according to the speed of rotating the VOLUME CONTROL. Rotating the control slowly decreases the variable effect amount so a finer adjustment is possible.

Convenient DPSS-[36]

The DPSS (Direct Program Search System) allows you to play a cassette tape with a variety of playback functions simlar to a CD.
● Playing tunes by skipping some.
● Playing a single tune repeatedly.
● Rewinding a tape and playing from the beginning.
● Playing a tape by skipping blanks between tunes.

Simplified CD recording-[44]

Various CD editing & recording features are available for selection according to the tape you require.
● Fade edit recording: Recording CD tracks sequentially from No. 1.
● Program edit recording: Recording desired CD tracks in desired order.
● Timed edit recording: Recording CD tracks within the specified tape length so that no track is interrupted in the middle.
● AI edit recording: Recording all CD tracks even when the total playing time exceeds the total recording time of tape.
● X.FADE (Cross-fade) edit recording: Recording by overlapping the beginnings and endings of the CD tracks.

Versatile tone and sound field adjustment-[60]

The tone can be selected according to the genre of the music played:
  POP, ROCK, JAZZ, CLASSIC.
The sound field can also be selected as desired:
  ARENA, JAZZ CLUB, STADIUM.

Live, being-there sounds of presence effects-[62]

[DOLBY SURROUND] playback is a matter of course. In addition, sound can be reproduced in KENWOOD original sound fields and the depth of sound can be adjusted as desired. You can enjoy music in the sound field you like.

Contents

Convenient timer functions-[68]

In addition to the possibility of storing up to 2 timer programs in memory, the following functions are available.
● AI timer: When the power is turned ON by the timer, the sound level increases gradually.
● Sleep timer: Useful when you want to go asleep while listening to music.
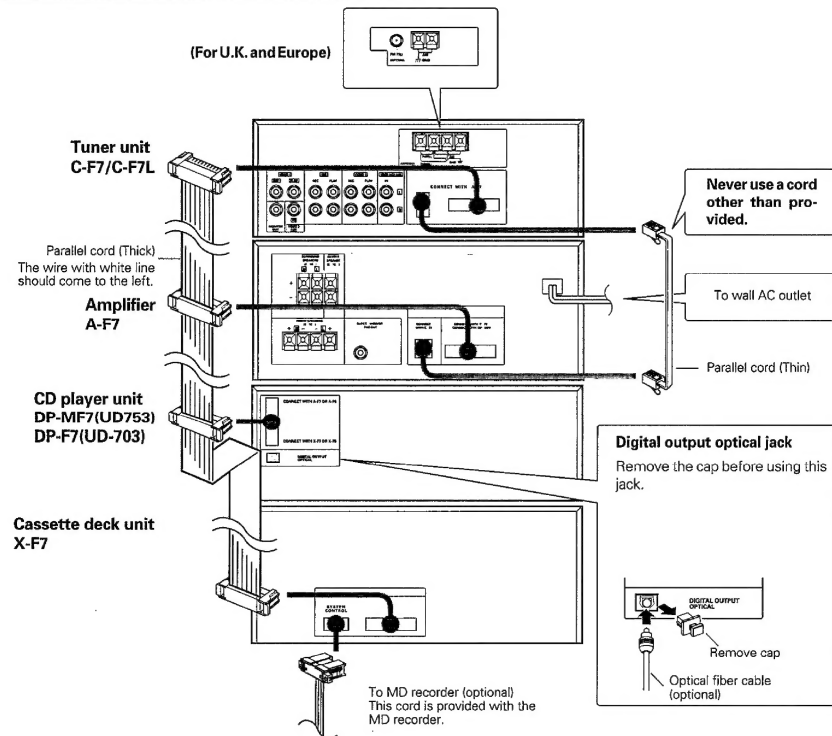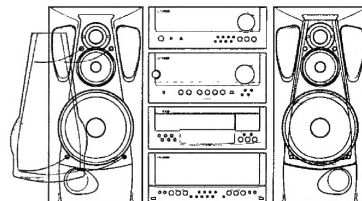
UD-703/753 (En)

Do not plug the power cord into the power outlet until all of the required connections have been made.

● When arranging the system units in a vertical, stacked configuration, observe the stacking order indicated in the system connection diagram below.
● In the case an associated system component being connected, also read the instruction manual of the component.
● Align the front panels of the unit flush.

Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". →[74]

(For U.K. and Europe)

**Tuner unit
C-F7/C-F7L**

Parallel cord (Thick)
The wire with white line should come to the left.

**Amplifier
A-F7**

**CD player unit
DP-MF7(UD753)
DP-F7(UD-703)**

**Cassette deck unit
X-F7**

Never use a cord other than provided.

To wall AC outlet

Parallel cord (Thin)

Digital output optical jack

Remove the cap before using this jack.

Remove cap

Optical fiber cable (optional)

To MD recorder (optional)
This cord is provided with the MD recorder.

Optical fiber cable connection

The digital OPTICAL output is designed for use in the connection with an MD recorder (optionally available). The digital signal transmission allows you to record the CD sound on MD without spoiling the high sound quality. This jack can also be connected to an amplifier equipped with a digital optical input (optical fiber).
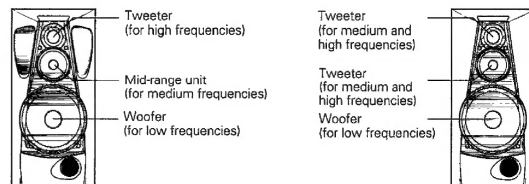
● When using an optical fiber cable to connect this unit to a MD recorder or digital amplifier, insert the plug straight into the jack until a click sound is heard.
● Be careful not to bend, coil or bundle the optical fiber cable.
● Optical fiber cables available in audio accessory stores may not always be able to be used with this unit. If your cable cannot be used with this unit, consult the store from which you purchased the cable or your nearest dealer.

Notes
1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not produced or noise may interfere.
2. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.
3. Do not connect up a power source which is larger than that indicated on the socket at rear of the unit.

UD-703/753 (En)

Tweeter
(for high frequencies)

Mid-range unit
(for medium frequencies)

Woofer
(for low frequencies)

Tweeter
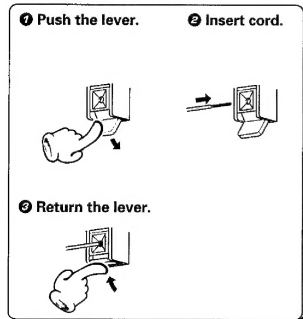(for medium and
high frequencies)

Tweeter
(for medium and
high frequencies)

Woofer
(for low frequencies)
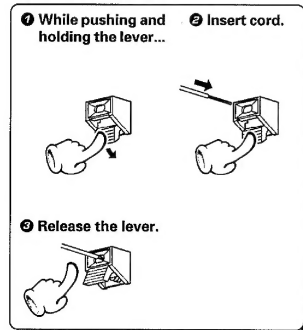
LS-F7: For other countries

LS-F5: For U.S.A. and Canada

Speaker rear panels

❶ While pushing and
holding the lever...

❷ Insert cord.

❸ Release the lever.

(Right)   (Left)

Red

Black

Amplifier rear panel

❶ Push the lever.

❷ Insert cord.

❸ Return the lever.

FRONT SPEAKERS
(8 - 16Ω)
+ R − − L +

Amplifier A-F7
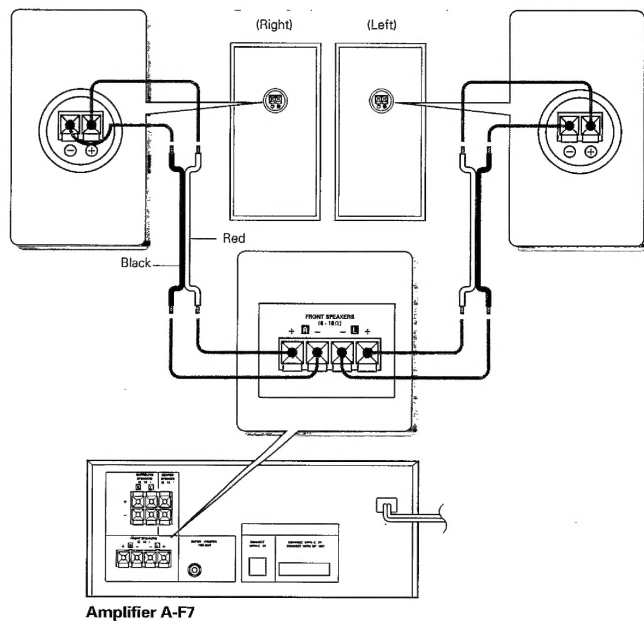
● Never short-circuit the + and − speaker cords.
● If the left and right speaker connections or the + and − polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc.
Be sure to connect them without mistake.

Connection of parallel cord

✕   ◯
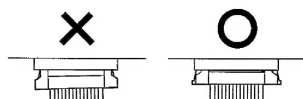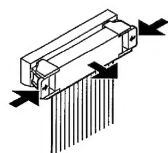
● When connecting the parallel cord, insert the plug straight into the connector until it clicks to lock them securely.
● When connecting the parallel cord, the wire with white line should come to the left side end.
● When disconnecting the parallel cord, push in the two sides of the plug and pull it straight out.

Connection method

❶ Push the lever.   ❷ Insert cord.   ❸ Return the lever.
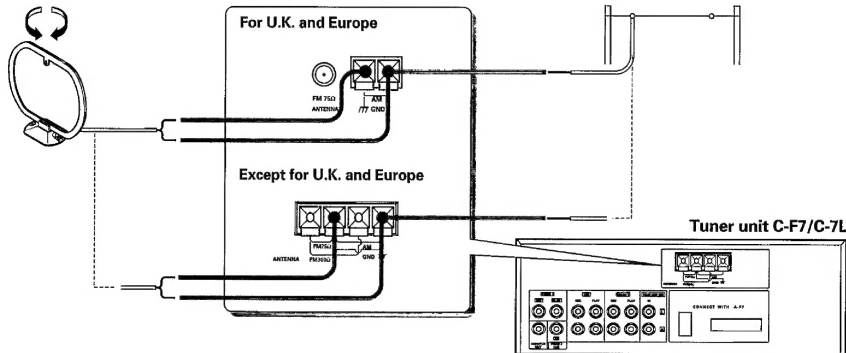
Tuner unit C-F7/C-F7L
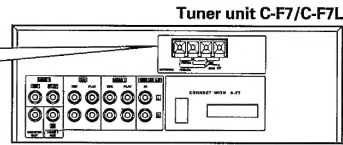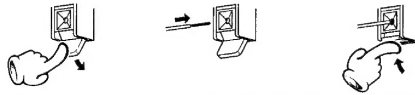
Connection of AM antenna

Connection of AM loop antenna

The provided antenna is for indoor use. Place it in a position as far as possible from this system, TV, speaker cords and power cord and set to the orientation which provides the best reception condition.

Connection of AM outdoor antenna

If the reception condition is poor with the loop antenna alone, connect a vinyl coated wire of more than 6 m (20 ft) and extend it outdoors while leaving the loop antenna connected.
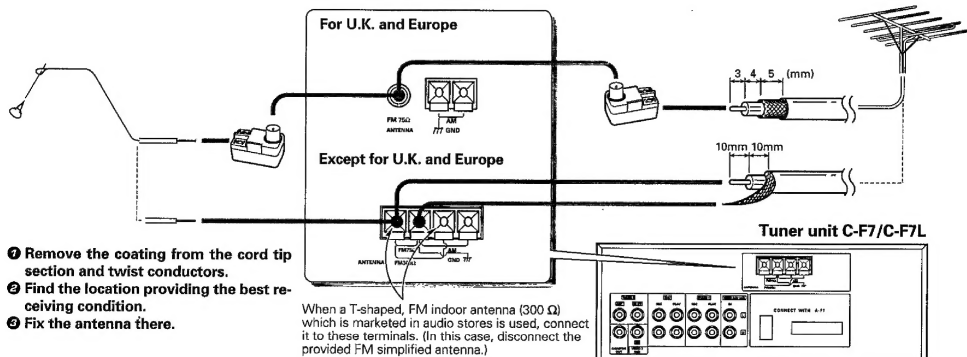
For U.K. and Europe

FM 75Ω
ANTENNA   AM
                 /// GND

Except for U.K. and Europe

ANTENNA FM300Ω   AM   GND

Tuner unit C-F7/C-7L

Connection of FM antenna

Connection of FM simplified antenna

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.

Connection of FM outdoor antenna

Lead the antenna wire indoors using a 75 Ω coaxial cable and connect it to the FM 75 Ω connector.

For U.K. and Europe

FM 75Ω
ANTENNA   AM
                 /// GND

3 4 5 (mm)

Except for U.K. and Europe

10mm 10mm

ANTENNA FM300Ω   AM   GND ///

Tuner unit C-F7/C-F7L

❶ Remove the coating from the cord tip section and twist conductors.
❷ Find the location providing the best receiving condition.
❸ Fix the antenna there.

When a T-shaped, FM indoor antenna (300 Ω) which is marketed in audio stores is used, connect it to these terminals. (In this case, disconnect the provided FM simplified antenna.)

Connection of antenna adapter (U.K., and Europe only)

❶ Strip the cable coating.	❷ Open the antenna adaptor.

❶ Strip the cable coating.

When coaxial cable is used

Outer shield (Braid)   Inner conductor

5 | 4 | 3 | (mm)

RG-6 (5C-2V) or RG-59 (3C-2V)
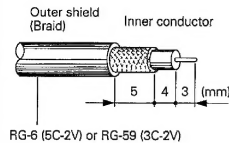
When the provided simplified antenna is used

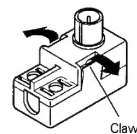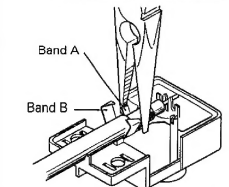Remove the vinyl coating and twist conductors.

❷ Open the antenna adaptor.

Claw

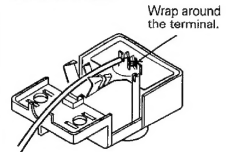Open the claws with the fingers to release the lock and pull out the cover.

**❸ Attach the cable and close the cover.**

When coaxial cable is used

Band A

Band B

Insert the cable into the slit on the clip. Fasten bands A and B using a pair of pliers.

When the provided simplified antenna is used

Wrap around the terminal.

Insert the antenna cord tip into the slit on the hardware and wrap the cord around it.

❹ Connect the adaptor to the antenna terminal.

FM 75Ω ANTENNA   AM GND
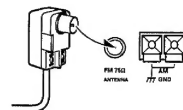
FM DE-EMPHASIS/CHANNEL SPACE switch
(Except for U.S.A., Canada U.K. Europe and Australia)

The FM DE-EMPHASIS/CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the FM DE-EMPHASIS/CHANNEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you move from area 1 to area 2 or vice versa, desired reception of AM/FM broadcasts is not expected. In this case, change the FM DE-EMPHASIS/ CHANNEL SPACE setting in accordance with the area corresponding to the table. The FM DE-EMPHASIS is switched over at the same time.

● When changing the setting of the FM DE-EMPHASIS/CHANNEL SPACE switch, first disconnect the power cord, then reset the channel space switch, connect the power cord again, and turn the power on.

DE-EMPHASIS CHANNEL SPACE

50μs   75μs
AM 9kHz ◁ ▷ AM 10kHz
FM 50kHz   FM100kHz

CONNECT WITH A-FY

Area		CHANNEL SPACE freq.	FM DE-EMPHASIS
1	U.S.A., Canada, and South American countries	FM: 100kHz AM: 10kHz	75μs
2	Other countries	FM: 50kHz AM: 9kHz	50μs

8

❶ **Push the lever.** ❷ **Insert cord.**

❸ **Return the lever.**

(Right) (Left)

Surround (rear) speakers
CRS-03 or RS-03 (all optional)

Provided with
rear speakers

SURROUND | CENTER
SPEAKERS | SPEAKER

+

−

Provided with the
center speaker

Center speaker
CRS-03 or CS-03
(optional)

**Amplifier unit
A-F7**

Super woofer
SW-500 (optional)

SUPER WOOFER
PRE OUT

Provided with SW-500

To wall AC outlet
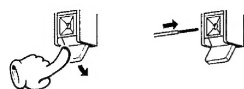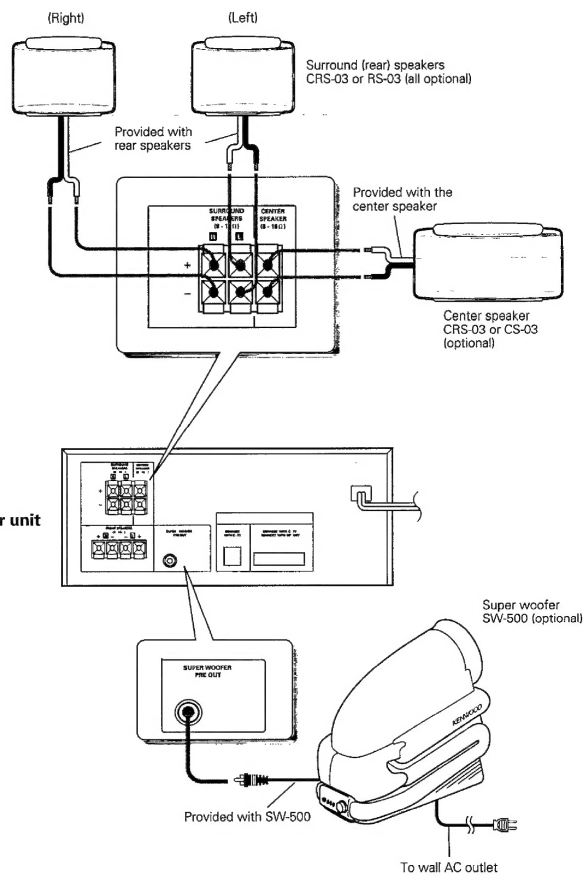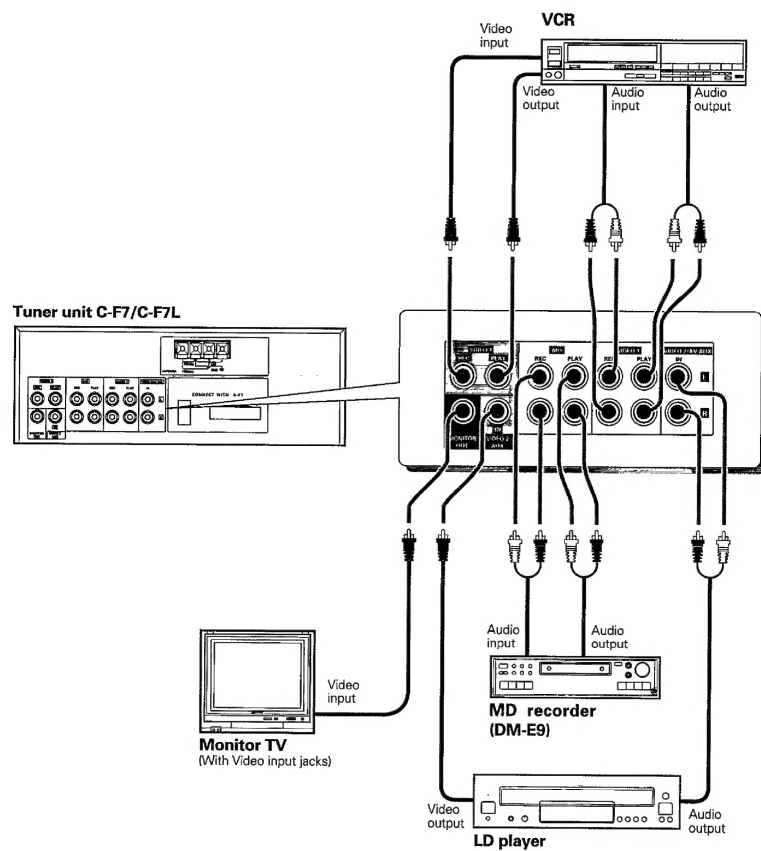
Connection of Audio / Visual components (optional)

UD-703/753 (En)

- Connection cords are not supplied with this system.
- Any of the following components can be connected in place of the LD player shown below.
  - DBS tuner
  - Video camera
  - Video recorder
- A DAT recorder can also be connected in place of the MD (Mini Disc) recorder.

VCR

Video input

Video output — Audio input — Audio output

Tuner unit C-F7/C-F7L

Monitor TV
(With Video input jacks)

Video input

MD recorder (DM-E9)

Audio input — Audio output

LD player

Video output — Audio output

UD-703/753 (En)

Amplifier unit

Video input indicators

MUTE indicator

MUTING V2 V1

Volume display

Character information display

Display

KENWOOD STEREO INTEGRATED AMPLIFIER A-F7

POWER
ON/STANDBY

VOLUME CONTROL

SOURCE
DIRECT

DOWN   UP

PHONES

VIDEO 2/AUX   VIDEO 1   MD   TAPE   TUNER   CD   SOURCE DIRECT

BALANCE L   R

L.L.C.   N.B.CIRCUIT

❶ ❷ ❸ ❹ ❺ ❻❼ ❽ ❾ ❿ ⓫

❶ Remote sensor   →16
❷ POWER key   →18
   Press to turn the power ON/OFF.
❸ PHONES jack   →18
   Connect headphones for listening through them.
❹ VIDEO input switch keys
   Press to select the video input source.
❺ Input selector keys   →20
   Press to select the component to be played.
❻ SOURCE DIRECT indicator   →19
   Lights when the SOURCE DIRECT function is ON.

❼ SOURCE DIRECT key   →19
   Press to enjoy music with a purer sound.
❽ L.L.C. key   →18
   Press to listen to sound at a low level.
❾ N.B.CIRCUIT key   →19
   Press to ON to activate automatic control of bass tone.
❿ BALANCE (LEFT, RIGHT) keys   →19
   Press to adjust the volume balance between the left and right speakers.
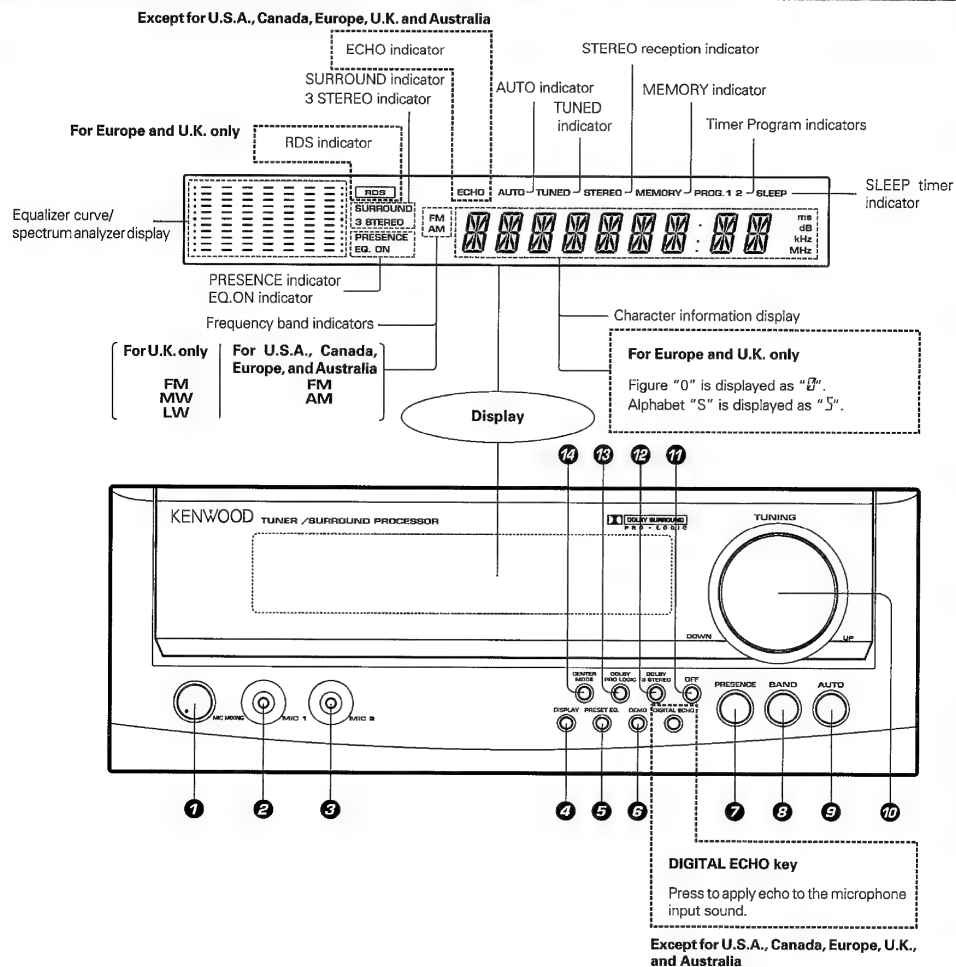⓫ VOLUME CONTROL knob   →19

Tuner unit

Except for U.S.A., Canada, Europe, U.K. and Australia

ECHO indicator

SURROUND indicator
3 STEREO indicator

STEREO reception indicator

AUTO indicator
TUNED
indicator

MEMORY indicator

Timer Program indicators

For Europe and U.K. only

RDS indicator

Equalizer curve/
spectrum analyzer display

```
RDS
SURROUND
3 STEREO
PRESENCE
EQ. ON
```

FM
AM

ECHO   AUTO   TUNED   STEREO   MEMORY   PROG. 1 2   SLEEP

ms
dB
kHz
MHz

SLEEP timer
indicator

PRESENCE indicator
EQ.ON indicator

Frequency band indicators

Character information display

For U.K. only	For U.S.A., Canada, Europe, and Australia
FM MW LW	FM AM

Display

For Europe and U.K. only

Figure "0" is displayed as "*0*".
Alphabet "S" is displayed as "*5*".

⑭ ⑬ ⑫ ⑪

KENWOOD TUNER /SURROUND PROCESSOR

DOLBY SURROUND
PRO · LOGIC

TUNING

DOWN   UP

CENTER   DOLBY   DOLBY   OFF
MODE   PRO LOGIC 3 STEREO

DISPLAY   PRESET EQ.   DEMO   DIGITAL ECHO
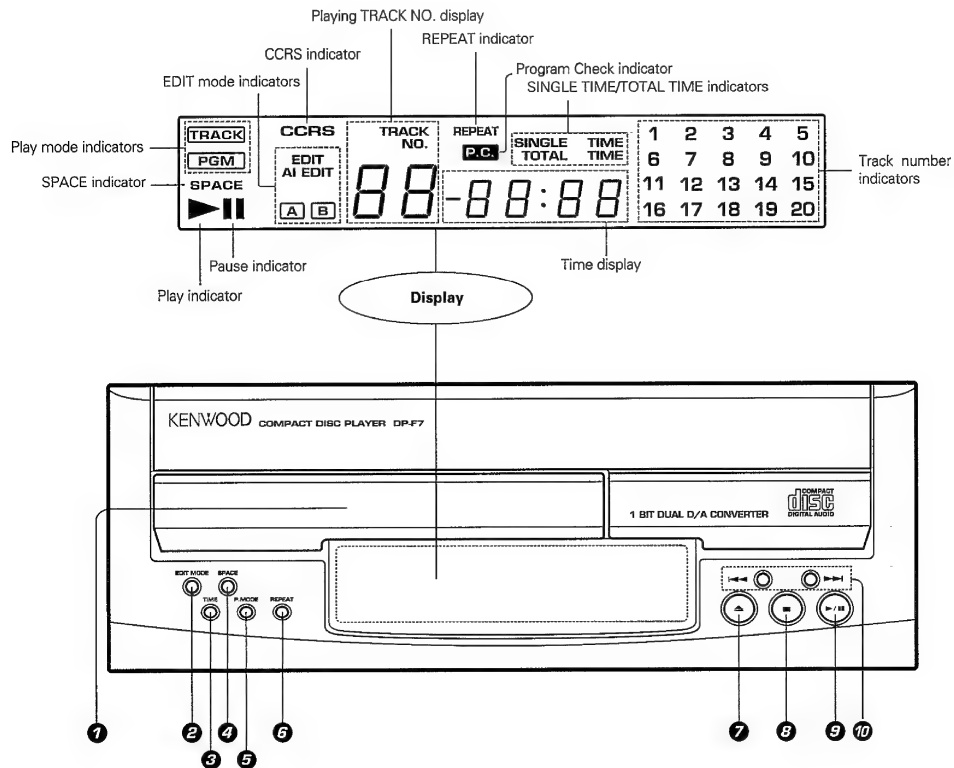
PRESENCE   BAND   AUTO

❶ ❷ ❸   ❹ ❺ ❻   ❼ ❽ ❾ ❿

DIGITAL ECHO key

Press to apply echo to the microphone
input sound.

Except for U.S.A., Canada, Europe, U.K.,
and Australia

❶ **MIC MIXING control**   →🔳
   Turn to adjust the microphone input volume.
❷ **MIC 1 jack**   →🔳
❸ **MIC 2 jack**   →🔳
❹ **DISPLAY key**   →🔳
   Press to change over the display contents.
❺ **PRESET EQ. key**   →🔳
   Press to apply an equalizer pattern matching the category of the music
   being played.
❻ **DEMO key**   →🔳
   Press to start demonstration.
❼ **PRESENCE key**   →🔳
   Press for presence play.
❽ **BAND key**   →🔳
   Press to select the required frequency band.

❾ **AUTO key**   →🔳
   Press to receive stations in auto tuning mode.
❿ **TUNING knob**   →🔳
   Press to select the station to be received.
⑪ **OFF key**   →🔳
   Press to switch the surround and presence modes OFF.
⑫ **DOLBY 3 STEREO key**   →🔳
   Used in adjustment of or playback in the Dolby 3 Stereo mode.
⑬ **DOLBY PRO LOGIC key**   →🔳
   Used in adjustment of or playback in the Dolby Pro Logic mode.
⑭ **CENTER MODE key**   →🔳
   Used in adjustment of or playback in the Dolby 3 Stereo or Dolby Pro
   Logic mode.

CD player unit (UD-703)

12

Playing TRACK NO. display
REPEAT indicator
CCRS indicator
Program Check indicator
SINGLE TIME/TOTAL TIME indicators
EDIT mode indicators

Play mode indicators
SPACE indicator

TRACK	CCRS	TRACK NO.	REPEAT P.C.	SINGLE TOTAL	TIME TIME	1 2 3 4 5
PGM	EDIT AI EDIT					6 7 8 9 10
SPACE						11 12 13 14 15
►II	A B	88	-88:88			16 17 18 19 20

Track number indicators

Pause indicator
Play indicator

Display

Time display

KENWOOD COMPACT DISC PLAYER DP-F7

1 BIT DUAL D/A CONVERTER

COMPACT disc DIGITAL AUDIO

EDIT MODE   SPACE
TIME   P.MODE   REPEAT

❶
❷ ❹ ❻
❸ ❺

❼ ❽ ❾ ❿

---

❶ Disc tray → 20

❷ EDIT MODE key → 48
Press to select the edit recording mode.

❸ TIME key → 24
Press to switch the time display mode.

❹ SPACE key → 23
Press in PGM mode to create a non-recorded space of a few seconds between recorded tracks automatically.

❺ P.MODE key → 22
Press to switch between the TRACK mode and PGM mode.

❻ REPEAT key → 24
Press for repeated playback.

❼ Open/Close key → 20

❽ Stop key → 20

❾ Play/pause key → 20

❿ Skip keys → 21
Press to skip to the beginning of another track.

CD player unit (UD-753)

EDIT mode indicators

RANDOM indicators | DISC NO. display

SPACE indicator

REPEAT indicator

PGM indicator

Program Check indicator

CCRS indicator

SINGLE TIME/TOTAL TIME indicators

Disc number indicators

PGM	RANDOM ONE ALL	DISC NO.	REPEAT TRACK NO.	P.C.	SINGLE TIME TOTAL TIME	1 2 3 4 5
SPACE	EDIT AI EDIT					6 7 8 9 10
CCRS						11 12 13 14 15
►II	A B					16 17 18 19 20

Track number indicators

Pause indicator

Time display

Play indicator

Display

Playing TRACK NO. display

KENWOOD MULTIPLE COMPACT DISC PLAYER DP-MF7

COMPACT
DIGITAL AUDIO

6 DISC CHANGER

DISC 1 DISC 2 DISC 3
DISC 4 DISC 5 DISC 6

① ② ③ DISC SELECTOR
④ ⑤ ⑥

❶ ❷   ❸ ❹ ❺❻❼

❶ Disc tray	—26	❺ Play/pause key	—27
❷ Disc selector keys	—26	❻ Skip keys	—28
❸ Open/Close key	—26	Press to skip to the beginning of another track.	
❹ Stop key	—27	❼ Disc selector indicators	—26

14| *Cassette deck unit*

KENWOOD STEREO DOUBLE CASSETTE DECK X-F7   DPSS □□ DOLBY B-C NR HX PRO

A PLAYBACK   AUTO REVERSE   AUTO REVERSE   RECORDING/PLAYBACK B
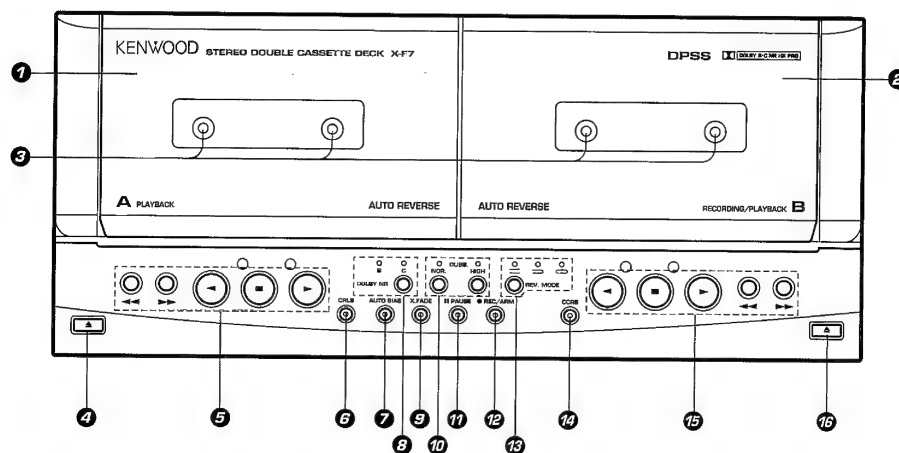
❶ Deck A cassette holder
❷ Deck B cassette holder
❸ Tape running indicators
❹ Deck A eject key
❺ Deck A operation keys
◄, ►   Play keys/indicators
■   Stop key
►►   Fast Forward key
◄◄   Rewind key

❻ CRLS key/indicator   →[41]
Press to set the optimum recording level automatically.
❼ AUTO BIAS key/indicator   →[41]
Press to set the tape recording bias automatically.
❽ DOLBY NR key/indicator   →[34]
❾ X.FADE (Cross-fade) key/indicator
          →[47]→[55]
Press to create a tape with continuous music by fading in the beginning and fading out the end of every tune.
❿ DUBB. keys (HIGH, NOR.)/indicators
          →[43]
Press for dubbing between tapes.
⓫ Pause key/indicator   →[42]

⓬ REC/ARM key / indicator   →[41]
⓭ REV. MODE key / indicator   →[34]
Press to switch over the play modes.
⓮ CCRS key/indicator   →[46]→[54]
Press to start recording after having set the optimum recording level for the CD and the optimum recording bias for the tape automatically.
⓯ Deck B operation keys
◄, ►   Play keys/indicators
■   Stop key
►►   Fast Forward key
◄◄   Rewind key
⓰ Deck B eject key

Remote control unit

Input selector key
INPUT key: Press to select the component to be played.

Graphic equalizer operation keys
EQ.EFFECT: Press to select a graphic equalizer effect.
PRESENCE: Press to select a presence effect.

Cassette deck operation keys
To operate deck A, set the A/B switch to A. (The ● key is invalidated.)
To operate deck B, set the A/B switch to B.

Numeric keys
Function as the numeric keys of the CD player when the CD input is selected.
Function as the numeric keys of the tuner when the TUNER input is selected.

VOLUME CONTROL keys
Press to adjust the volume.

MUTE key
Press to mute the sound temporarily.

Surround effect keys
REAR LEVEL keys, DOLBY PRO LOGIC key, DOLBY 3 STEREO key, CENTER LEVEL keys, TEST TONE key, DELAY TIME keys, OFF key

MD recorder operation keys
I◀◀ and ▶▶I keys, ▶ key, ● REC key, II key, ■ key, Use these keys to operate a MD (Mini Disc) recorder (optional).

A/B switch
When operating keys in sections hashed ☐ , set this switch according to the deck (A or B) you want to remote control.
● With keys which have two names, one printed in white and the other printed in brown, they function as indicated with the brown letters when the A/B switch is set to A and as indicated with the white letters when the switch is set to B.

SOURCE DIRECT key

POWER key

Tuner operation keys
BAND key, P.CALL keys

CD player basic operation keys
I◀◀ and ▶▶I keys, ◀◀ and ▶▶ keys, ■ key, ▶/II key

CD player operation keys
OPEN/CLOSE key, TIME key, RANDOM key, REPEAT key, *DISC SKIP key, EDIT MODE key, SPACE key, P.MODE key, CLEAR key, CHECK key

SLEEP key   * The DISC SKIP key is for use with the UD-753 system.

L.L.C. key

N.B.CIRCUIT key

Tuning/timer operation keys
TUNING keys, PROGRAM key, ADJUST key, ENTER key, EXE. key

Super woofer keys
Use these keys to operate a super woofer (optional).
POWER key, VOL. keys, PHASE key, TURNOVER key.

Model: RC-F7
Infrared ray system

UD-703/753 (En)

Loading batteries

1 **Remove the cover.**
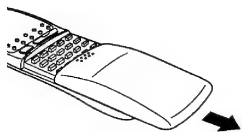
2 **Insert batteries.**
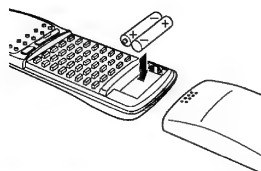
● Insert two R03 ("AAA"-size) batteries following the polarity indications.

3 **Close the cover.**
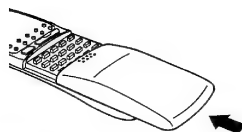
Operation

After plugging in the power cord of the amplifier, press the POWER key of the remote control unit to turn the power of the system ON. When the power is turned ON, press the key of the function to be operated.

Remote sensor

6 m

30° 30°

Model: RC-F7
Infrared ray system

Operating range (approx.)
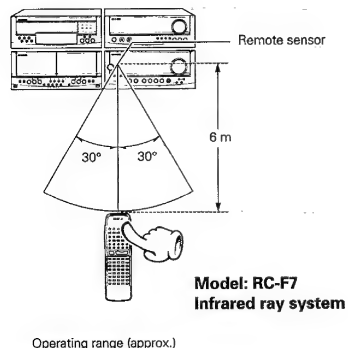
● When pressing more than one remote control key successively, press the keys securely by leaving an interval of 1 second or more between keys.

In this manual, the remote control unit is illustrated with its cover omitted. This is simply for the convenience of explanation.

Notes
1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

Clock adjustment

This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function.

Preparation

Ensure that the power is OFF.

AM 12:00
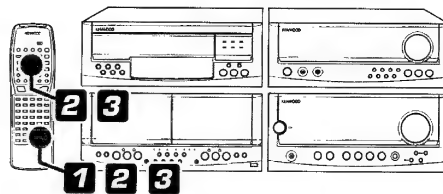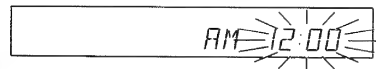
1 Activate the clock adjustment mode.
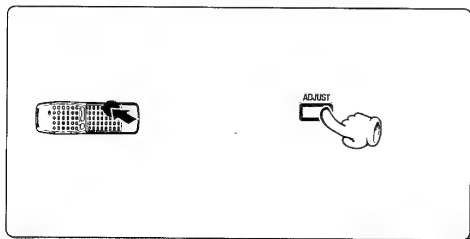
ADJUST

Example: Adjustment to 8:45AM

AM 12:00
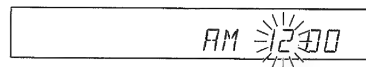
● The time display starts to blink.

2 Enter the hour.

❶
To increase the figure

P.CALL

To decrease the figure

❷
ENTER

AM 8:00
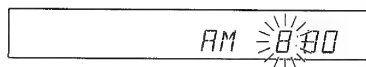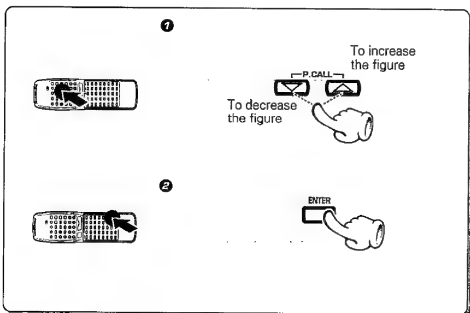
● The time of the day is represented in 12-hour AM/PM method.
● Press the **ENTER** key. The hour is entered and the minute display starts to blink.

3 Enter the minutes.

❶
To increase the figure

P.CALL

To decrease the figure

❷
ENTER

AM 8:45
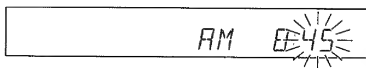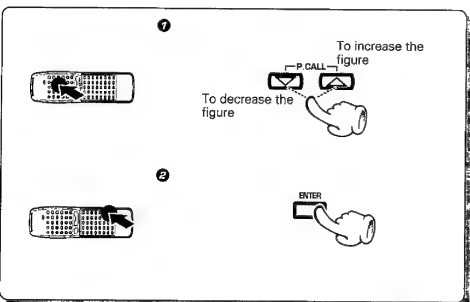
● If you make a mistake, restart from the beginning.
● To adjust correct time, press the **ENTER** key at the same moment as a time announcement.
● The time display blinks after a power failure or when the power cord has been unplugged from the AC outlet and plugged in again. In such a case, adjust the clock again.

Sound adjustment functions

18

Power ON/OFF

Press the POWER key of the amplifier unit.

STANDBY indicator

POWER ON/STANDBY

POWER

Remote control unit
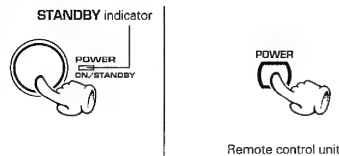
● The power of the overall system can be turned ON/OFF by pressing the **POWER** key of amplifier unit.

Listening at a low volume (L.L.C.: Low Level Control)

The volume set for quiet listening (L.L.C. volume) can be recalled with a one-touch operation.

L.L.C.

Blinks. → Lights.
(For a few seconds)
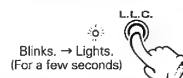
● The volume is decreased and the bass and treble tones are compensated.
● When L.L.C. is ON, amount of volume varied by rotating the **VOLUME CONTROL** becomes constant regardless of the speed the control is rotated.
● If the L.L.C. volume which has been stored in memory is higher than the current listening volume, the volume will not be changed by pressing this key.
● The volume does not return to the original level even after L.L.C. has been switched OFF. Adjust the volume as desired.

Enhanced bass entertainment with super woofer (optional)

❶ **Press the S.WOOFER POWER key.**

POWER   VOL.   PHASE   TURNOVER

Remote control unit
(Point remote control unit at the super woofer.)
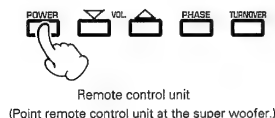
❷ **Adjust the super woofer volume.**

To increase volume

VOL.
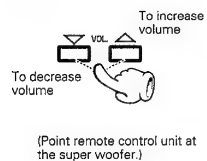
To decrease volume

It can also be adjusted with the volume control provided on the super woofer.

(Point remote control unit at the super woofer.)

● Once the super woofer volume has been set, it will increase or decrease according to the **VOLUME CONTROL** adjustment.
● For the **PHASE** and **TURNOVER** key settings, read the instruction manual of your super woofer.

Listening through headphones

❶ **Insert the headphone plug into the PHONES jack.**

PHONES

● The sounds from all speakers are cut off.

❷ **Adjust the volume.**

● Minimize the volume before plugging or unplugging the plug.

STANDBY mode of POWER switch

When the power cord is plugged into an AC outlet, the **STANDBY** indicator lights regardless of the power ON/OFF setting. This is because, even when the power is set to OFF, a small amount of power is supplied to the system to back up the memory. This status is called the standby mode of the system. While the **STANDBY** indicator is lit, the power can also be turned ON/OFF from the remote control unit.

To change the setting in memory

❶ Switch L.L.C. ON.

❷ While the L.L.C. indicator is blinking, set the L.L.C. volume with the VOLUME CONTROL or from the remote control unit.

❸ Press the L.L.C. key again while the L.L.C. indicator is blinking.

● When the key is pressed again after the L.L.C. indicator has finished flashing, this function is cancelled.
● If a larger L.L.C. volume than 29 is set, the bass and treble tones will not be compensated.

Volume adjustment

VOLUME CONTROL

DOWN   UP

To decrease   To increase
volume   volume

To increase
volume

VOLUME
CONTROL

To decrease
volume

Remote control unit

VOLUME 10

Volume display

● When the L.L.C. key is pressed to ON, these controls function as the L.L.C. volume control.

Muting the sound temporarily

Remote control unit only

MUTE

Blinks

CD
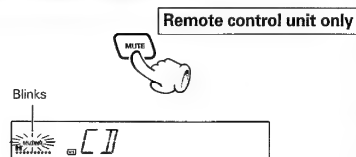
● Press again to resume the original volume.

Playing sound with higher purity

Switching SOURCE DIRECT ON simplifies the signal path and thereby improves the purity of sound.

SOURCE DIRECT

● When the **SOURCE DIRECT** is ON, the SOURCE DIRECT indicators on the front panel lights.
● Press the key again to cancel the SOURCE DIRECT.

Adjusting the left/right volume balance

Indicates the center.
Indicates the balance setting.

L ---- 7 --- R

To decrease   BALANCE   L   R   To decrease
Right volume   Left volume
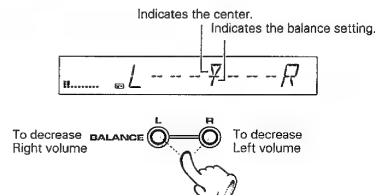
Compensation of bass sound

N.B.CIRCUIT: Natural Bass CIRCUIT

Press to ON to activate automatic adjustment of bass tone.

N.B.CIRCUIT

CD   NB
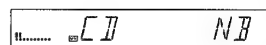
● Press the key again to cancel the N.B. CIRCUIT.

Input selection on the amplifier unit and easy operation function

With the easy operation function, simply selecting an input source with the input selector keys (TAPE, TUNER, CD, MD, etc.) of the amplifier unit start playback of the selected source component. On the contrary, starting playing a component switches the input selectors automatically to that input source.
The same operation is also possible with the INPUT key of the remote control unit. When the power is switched ON, the source which has been input before the power was switched OFF last time (TUNER, CD, etc.) will be played.

20

UD-703 only
For the operation of UD-753: →26 to →33.

Use the following procedure to play a CD in the original order of tracks from track No. 1.
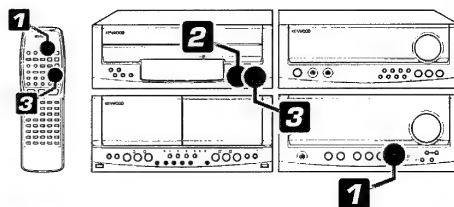
Playing tracks in order from track No. 1

1 Select the "CD" input.
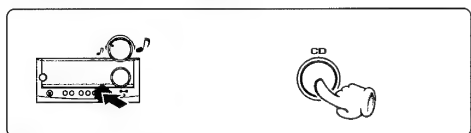
"CD" should be displayed.

III........ 🔲 *CD*
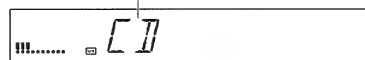
● Playback starts when a disc has been loaded.

2 Load a disc.

❶ Open the tray.

❷ Place a disc.

Label side

Disc tray

❸ Close the tray.
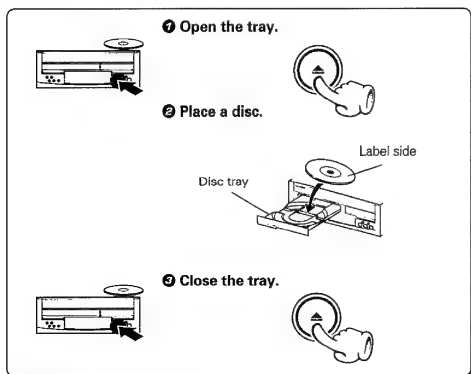
● Do not touch the played side of disc.
● Load only one disc at a time.
● A single CD (8 cm disc) can also be played.
● Place the disc properly along the groove on the tray. (If the disc is not placed horizontally, malfunction will result.)
● Ordinary CD single (8 cm) disc adapters sold in audio stores cannot be used with this unit.

Lights.

The recorded track Nos. are shown.

TRACK   TRACK NO.   SINGLE TIME   1 2 3 4 5
                                       6 7 8 9 10

01   0:00
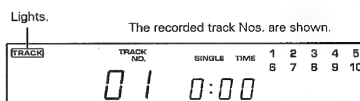
● If the **"TRACK"** indicator is not lit, press the **P.MODE** key to light it.

3 Start playback.
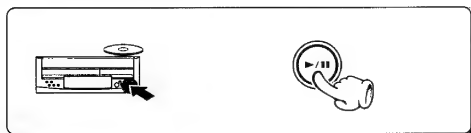
Track NO. being played

Elapsed time of track being played

TRACK   TRACK NO.   SINGLE TIME   1 2 3 4 5
                                       6 7 8 9 10

01   0:05
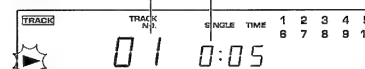
● After a few seconds, play starts from the track No.1.

To stop playback
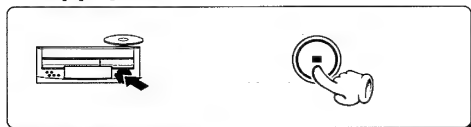
To pause playback
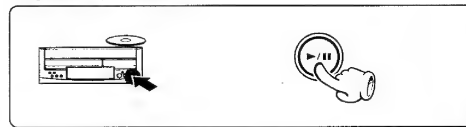
● Each press pauses and plays the CD alternately.

UD-703 only
For the operation of UD-753: →[26] to →[33]

Preparation

→[20]

- Select the **"CD"** input.
- Load a disc in the CD player.

---
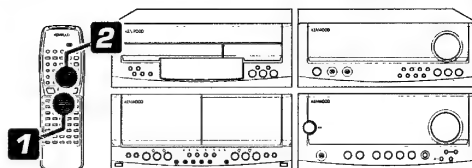
1 Check that the "TRACK" indicator is lit.
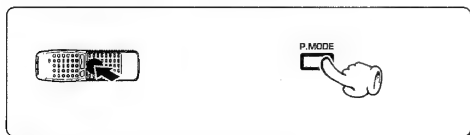
P.MODE

- If the **"TRACK"** indicator is not lit, press the **P.MODE** key to light it.

2 Select the desired track No.
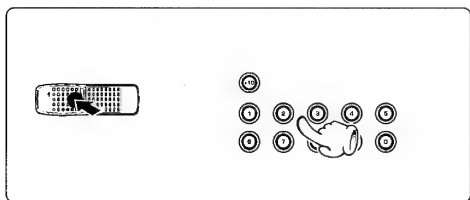
Press the numeric keys as shown below....

To enter track No. 23 : [+10] [+10] [3]
To select track No. 40 : [+10] [+10] [+10] [+10] [0]

- Playback starts from the selected track and continues on the subsequent tracks.
- If a track No. which does not exist on the disc is selected while the disc tray is open, the last track on the disc will be played.

Skipping tracks

A ◉ B

To skip backward [◄◄]   [►►] To skip forward
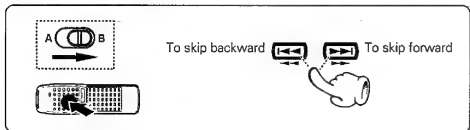
- The track in the direction of the pressed button is skipped, and the selected track will be played from the beginning.
- When the I◄◄ key is pressed once during playback, the track being played will be played from the beginning.

Searching

A ◉ B

Backward search [◄◄]   [►►] Forward search

- Playback starts from the position where the key is released.

UD-703 only
For the operation of UD-753: –[26] to –[33]

Preparation

–[20]

● Select the **"CD"** input.
● Load a disc in the CD player.

---

1 Press so that the "PGM" indicator lights.

P.MODE

Lights.

"SINGLE TIME" changes to
"TOTAL TIME".

TRACK NO.   1 2 3 4 5
        TOTAL TIME   6 7 8 9 10
PGM

$$01 - 0:00$$

---

2 Enter track Nos. in the order you want to play them.

Press the numeric keys as shown below....
To enter track Nos. 2, 5 and 25: [2] [5] [+10] [+10] [5]
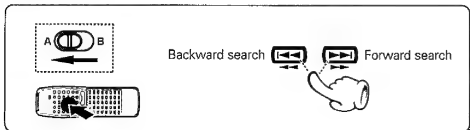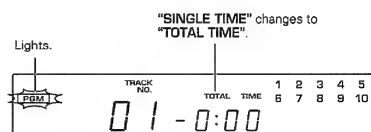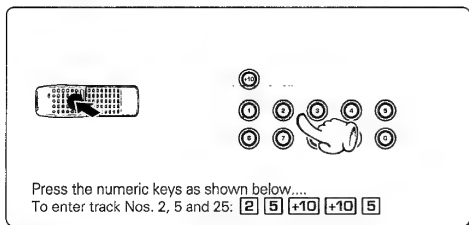
Displays the entered track No. for a few seconds.

Displays the total playing time of the programmed tracks.
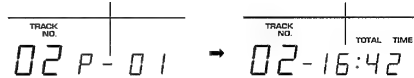
TRACK NO.

$$02 P - 01 \rightarrow 02 - 16:42$$

● Up to 32 tracks can be programmed. When "FULL" is displayed, no more tracks can be programmed.
● If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
● Track numbers can also be selected while the tray is open.

---

3 Start playback.
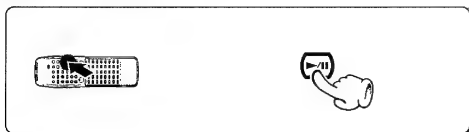
● Tracks will be played in the order they were programmed (in order of P Nos.).
● When the I◄◄ or ►►I key is pressed during playback, the track will be skipped in the direction of the pressed button.
● When the I◄◄ key is pressed once during playback, the play position returns to the beginning of the current track being played.

To stop playback
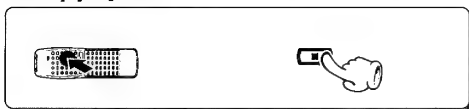
To return to playback in order of track Nos.

P.MODE
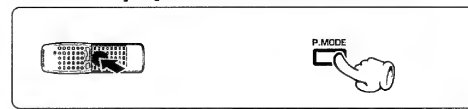
● Playback in the original order of tracks starts with the track being played.

UD-703 only
For the operation of UD-753: →26 to →33

Auto space function

When the **SPACE** key is pressed during programming of tracks, a non-recorded space of a few seconds will be created between tracks. By recording tracks with these spaces on tape, the search and repeat play operations of tape using the DPSS function (which works by searching the non-recorded spaces) can be performed reliably.

● Even when the performances of two tracks are continuous (which occurs with classical or live recording music), the spaces will be created if they have different track Nos.
● The displayed total playing time will include these non-recorded spaces.
● To cancel the auto space function, press the **P.MODE** key or the **SPACE** key again.

To check the programmed tracks   Remote control unit only

CHECK

P.C. lights.

PGM   TRACK NO.   P.C.   5
▶   05 P - 02
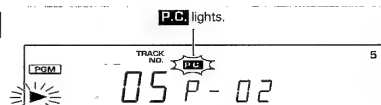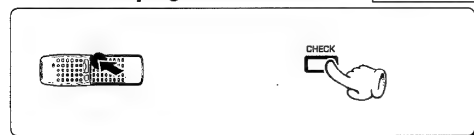
● Each time the key is pressed, the program No. (P-NO) and the track No. on CD are displayed.
● The previous display resumes in a few seconds.
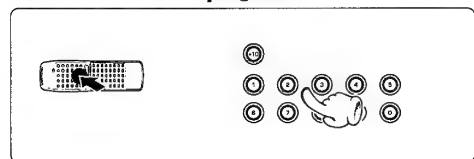
To add a track to the program

● When a track No. is entered, the track will be added to the end of the existing program.

To change a track in the program   Remote control unit only
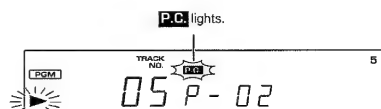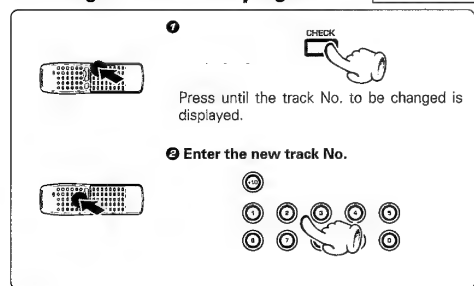
❶
CHECK

Press until the track No. to be changed is displayed.

❷ Enter the new track No.

P.C. lights.

PGM   TRACK NO.   P.C.   5
▶   05 P - 02

● Press while the **P.C.** indicator is lit.
● The track being played cannot be changed.

To clear tracks from the program

Press to clear tracks from the end.

CLEAR

● Each time the key is pressed, the last track in the program is cleared.
● The track being played cannot be changed.

To clear all track

P.MODE
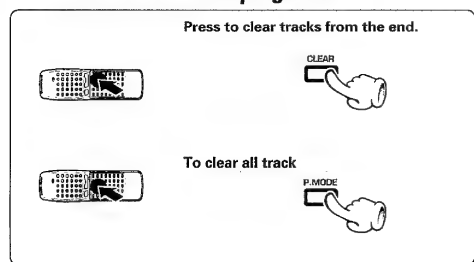
● The entire program is cleared.

Repeated playback

UD-703 only
For the operation of UD-753: –26 to –33

Preparation
–29
● Load a disc in the CD player.

Time display on CD player
Each press of the **TIME** key changes the displayed contents.

① *1:23* : Elapsed time of track being played
② *-2:37* : Remaining time of track being played
③ *23:45* : Elapsed time of entire disc
④ *-36:15* : Remaining time on entire disc

● Only **SINGLE TIME** is displayed in RANDOM and EDIT modes.

To repeat only the programmed tracks

❶ Select the "CD" input.
INPUT

❷ Press so that the "PGM" indicator lights.
P.MODE

❸ Program desired tracks.

❹ Switch REPEAT ON.
REPEAT

❺ Start playback.

"CD" should be displayed.

!!!........ 🔲 *CD*

Lights.

TRACK NO.   TOTAL TIME   1 2 3 4 5   6 7 8 9 10
PGM
01 - 0:00
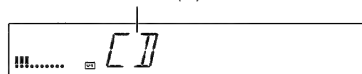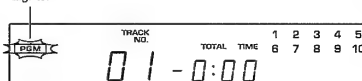
● All of the programmed tracks will be repeated.
● In case only one track is programmed, only that track will be repeated.
● Up to 32 tracks can be programmed. When "*FULL*" is displayed, no more tracks can be programmed.

Lights.

TRACK NO. REPEAT   TOTAL TIME   6 7   9 10   5
PGM
05 - 16:28
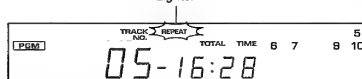
To cancel repeated playback
Press the REPEAT key again.

To repeat the entire disc

❶ Select the "CD" input.
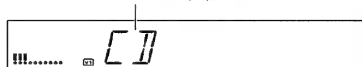INPUT

❷ Press so that the "TRACK" indicator lights.
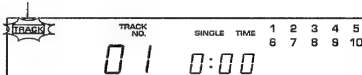P.MODE
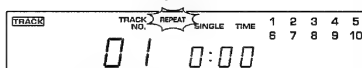
❸ Switch REPEAT ON.
REPEAT

❹ Start playback.

"CD" should be displayed.

!!!........ 🔲 *CD*

Lights.

TRACK   TRACK NO.   SINGLE TIME   1 2 3 4 5   6 7 8 9 10
01   0:00

Lights.

TRACK   TRACK NO. REPEAT SINGLE TIME   1 2 3 4 5   6 7 8 9 10
01   0:00

To cancel repeated playback
Press the REPEAT key again.

Playback in a random order (Random playback)

UD-703 only
For the operation of UD-753: ~[26] to ~[33]

As tracks are selected at random, you can enjoy listening to for a long time.

Preparation

~[20]

- Select the "CD" input.
- Load discs in the CD player.

---

1 *Check that the "TRACK" indicator is lit.*

P.MODE

Lights.

TRACK		SINGLE	TIME	1	2	3	4	5
	TRACK NO.			6	7	8	9	10
				11	12	13	14	15
				16	17	18	19	20

0 1 - 0:00
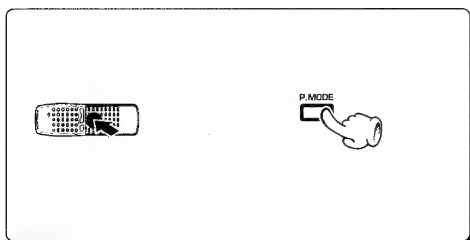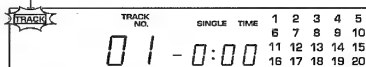
- If the **"TRACK"** indicator is not lit, press the **P.MODE** key to light it.
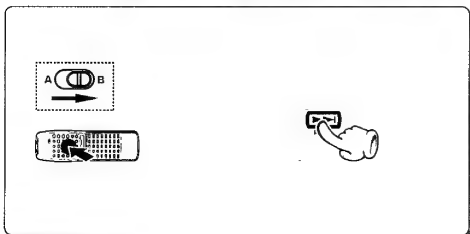
2 *Press the RANDOM key.*
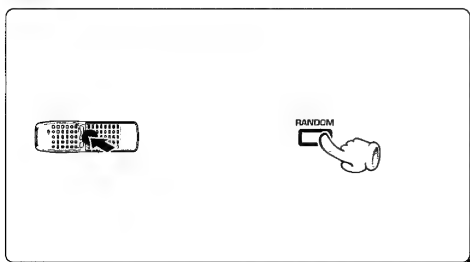
RANDOM

- After every track, the track number display blinks and the next selected track will be played.
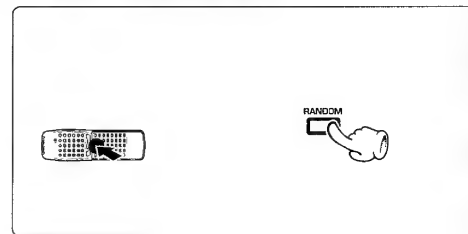
In case track No. 7 is selected

| TRACK | TRACK NO. | SINGLE | TIME | 7 |

▶ 0 7 0:0 1
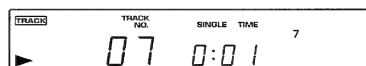
- Random play stops after all of the tunes have been played once.
- The random playback can also be repeated by pressing the **REPEAT** key.

To select another track in the middle of playing one

A □□ B
→

- Pressing the ◄◄ key once returns to the beginning of the track being played.

To cancel random playback

RANDOM
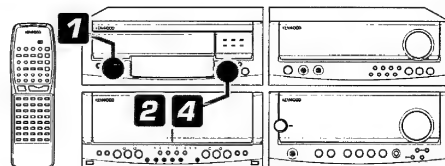
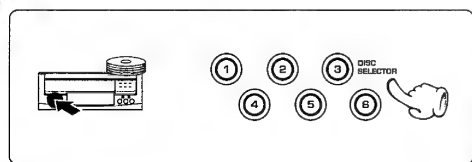- Press the **RANDOM** key to start normal playback.

UD-753 only
For the operation of UD-703: –[20] to –[25]

Loading a disc

1 Select a disc (bank).

① ② ③ DISC SELECTOR
④ ⑤ ⑥

- If the CD player is left untouched for a few seconds after the disc bank number has been selected, the CD player will enter the disc search mode (or play mode). To prevent this, press the ▲ Open/Close key immediately after selecting the disc bank.

2 Open the tray.

Press immediately after selection.

3 Place (or take out) a disc.

Label side
Disc tray
Groove for single CD (8 cm)
Groove for ordinary CD (12 cm)
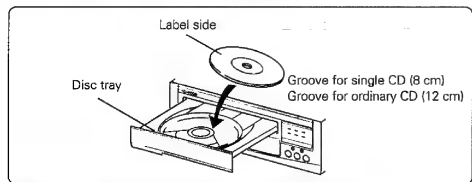
- Do not touch the played side of disc.
- Inserting 2 discs stacked on top of one another will cause a malfunction.

- A single CD (8 cm disc) can also be played.
- Place the disc properly along the groove on the tray. (If the disc is not placed horizontally, malfunction will result.)
- Ordinary CD single (8 cm) disc adapters sold in audio stores cannot be used with this unit.

4 Close the tray.

- Then the disc which has been placed on the tray is stored in the disc bank selected in step **1**.

Lights when the tray is closed after loading a disc.

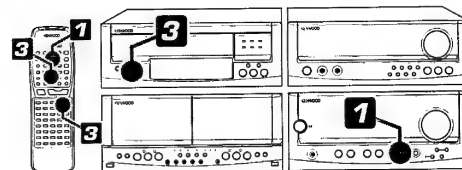**To load (or eject) more than one disc, repeat steps 1 to 4 for each disc.**
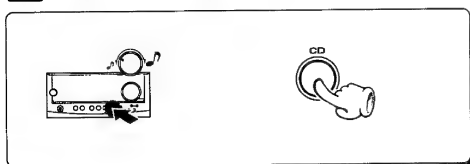
UD-703/753 (En)

UD-753 only
For the operation of UD-703: −[20] to −[25]
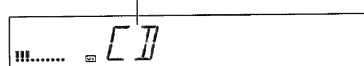
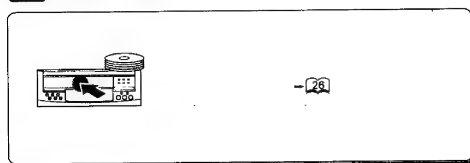Use the following procedure to play CDs in the original order of tracks from track No. 1.
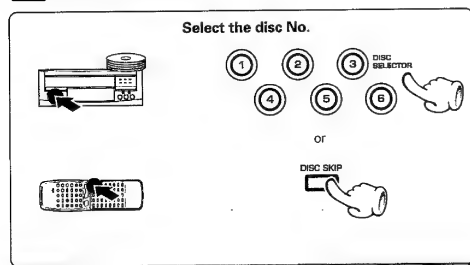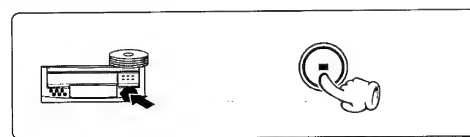
1 Select the "CD" input.

"CD" should be displayed.

```
!!!........  ⊡   [ ]
```

2 Load a disc.

−[26]

DISC NO.	TRACK NO.	SINGLE TIME	1 2 3 4 5
	1 01	0:00	6 7 8 9 10
			11 12 13 14 15
			16 17 18 19 20

3 Start playback.

Select the disc No.

① ② ③ DISC SELECTOR

④ ⑤ ⑥

or

DISC SKIP

DISC NO.	TRACK NO.	SINGLE TIME	1 2 3 4 5
▶	6 01	2:48	6 7 8

● Playback starts from the selected disc and continues in order of disc Nos.
● If the ▶/II key is pressed without selecting a disc, discs will be played automatically in the following order: 1 → 2 → 3 → 4 → 5 → 6.

To stop playback

To pause playback

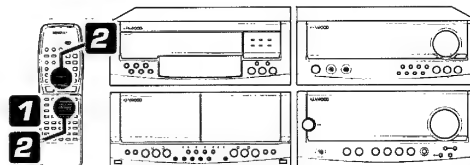● Each press pauses and plays the CD alternately.

♪ *Playback from desired track*
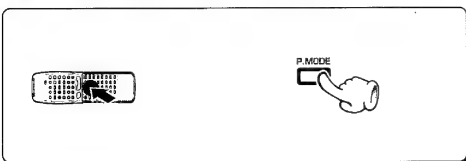
UD-753 only
For the operation of UD-703: →⟦20⟧ to →⟦25⟧

Preparation
→⟦27⟧

- Select the **"CD"** input.
- Load discs in the CD player.

---

1 Press so that "PGM" indicator goes off.

P.MODE

---

2 Select the desired track No.

❶ Select the disc.

DISC SKIP

❷ Select the desired track No.
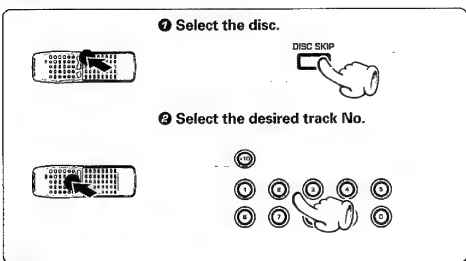
- The disc can also be selected with the **DISC SELECTOR** key.

Press the numeric keys as shown below....
To enter track No. 23 : ⟦+10⟧ ⟦+10⟧ ⟦3⟧
To select track No. 40 : ⟦+10⟧ ⟦+10⟧ ⟦+10⟧ ⟦+10⟧ ⟦0⟧

- Playback starts from the selected track and continues on the subsequent tracks.
- If a track No. which does not exist on the disc is selected while the disc tray is open, the last track on the disc will be played.

Skipping tracks

A ⟦⟧ B

To skip backward ⟦◀◀⟧ ⟦▶▶⟧ To skip forward
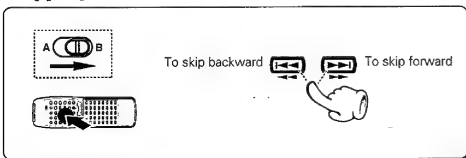
- The track in the direction of the button pressed is skipped, and the selected track will be played from the beginning.
- When the ◀◀ key is pressed once during playback, the track being played will be played from the beginning.

Searching

A ⟦⟧ B

Backward search ⟦◀◀⟧ ⟦▶▶⟧ Forward search
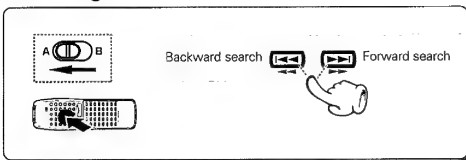
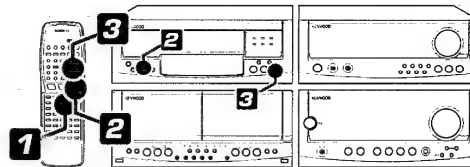- Playback starts from the position where the key is released.

UD-753 only
For the operation of UD-703: –[20] to –[25]

Use the following procedure to select desired tracks (up to 32 tracks) from up to 6 discs and program them in the desired order.
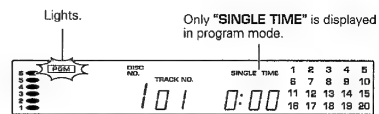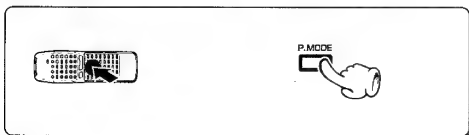
Preparation
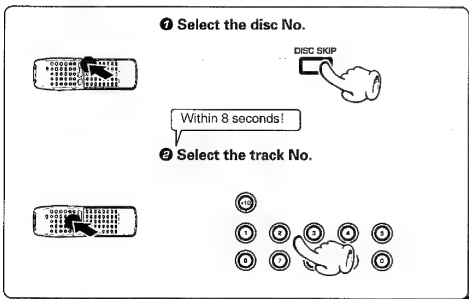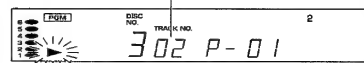–[27]

● Select the "CD" input.
● Load discs in the CD player.

---

1 Press so that the "PGM" indicator lights.

P.MODE

Lights.   Only "SINGLE TIME" is displayed in program mode.

PGM   DISC NO.   TRACK NO.   SINGLE TIME   1 2 3 4 5
                                              6 7 8 9 10
  1 01   *0:00*   11 12 13 14 15
                                             16 17 18 19 20

---

2 Enter track Nos. in the order you want to play them.

❶ Select the disc No.

DISC SKIP

Within 8 seconds!

❷ Select the track No.

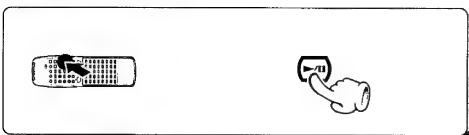Displays the entered track No.

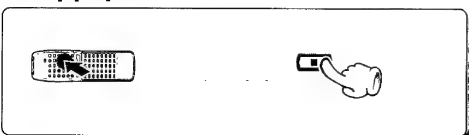PGM   DISC NO.   TRACK NO.   2

  3 02 P- 01

● Up to 32 tracks can be programmed. When "*FULL*" is displayed, no more tracks can be programmed.
● If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
● If the track No. is not selected within 8 seconds after having selected the disc No., all of the tracks on the disc will be programmed.
● If a disc No. which is not present in the magazine is entered, it is programmed temporarily but canceled at the time of playback.

To select tracks from more than one CD, repeat steps ❶ and ❷ above.

---

3 Start playback

● Tracks will be played in the order they were programmed (in order of P Nos.).
● When the ◄◄ or ►►I key is pressed during playback, the track will be skipped in the direction of the pressed button.

To stop playback

To return to playback in order of track Nos.

P.MODE

● Playback in the original order of tracks starts with the track being played.

30

Auto space function

When the **SPACE** key is pressed during programming of tracks, a non-recorded space of a few seconds will be created between tracks. By recording tracks with these spaces on tape, the search and repeat play operations of tape using the DPSS function (which works by searching the non-recorded spaces) can be performed reliably.

● Even when the performances of two tracks are continuous (which occurs with classical or live recording music), the spaces will be created if they have different track Nos.
● To cancel the auto space function, press the **P.MODE** key or the **SPACE** key again.
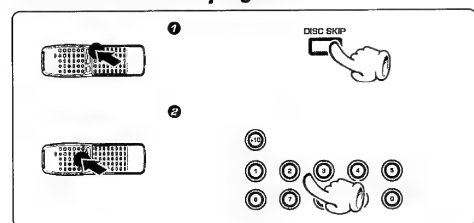

## To check the programmed tracks | Remote control unit only

P.C. lights.

CHECK

```
[PGM]   DISC    TRACK NO. P.C.                    5
         NO.
      ▶  5 05  P - 05
```
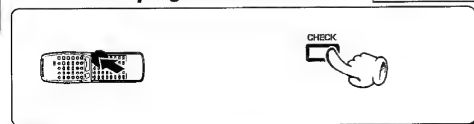
● Each time the key is pressed, the program No. (P-NO) and the disc No. are displayed.
● The previous display resumes in a few seconds.

To add a track to the program

❶ DISC SKIP

❷

● When a track No. is entered, the track will be added to the end of the existing program.

To change a track in the program

P.C. lights.

❶ CHECK

```
[PGM]   DISC    TRACK NO. P.C.                    5
         NO.
         5 05  P - 05
```
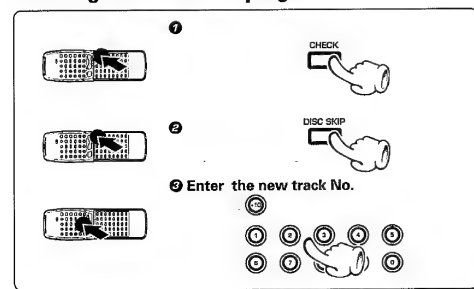
● Press the **CHECK** key repeatedly until the track No, to be changed is displayed.

❷ DISC SKIP

❸ Enter the new track No.

● Press while the **P.C.** indicator is lit.
● The track being played cannot be changed.

To clear tracks from the program
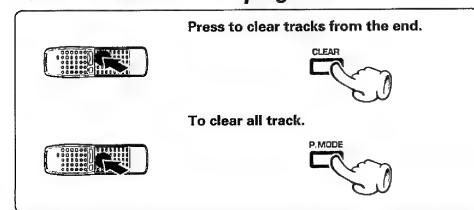
Press to clear tracks from the end.

CLEAR

● Each time the key is pressed, the last track in the program is cleared.
● The track being played cannot be cleared.

To clear all track.

P.MODE

● The entire programmed contents are also cleared when the Open/Close (▲) key is pressed.

Repeated playback

UD-753 only
For the operation of UD-703: →⃞20 to →⃞25

Preparation

→⃞27
- Select the **"CD"** input.
- Load discs in the CD player.

Time display on CD player

Each press of the **TIME** key changes the displayed contents.

① $1:23$: Elapsed time of track being played

② $-2:37$: Remaining time of track being played

③ $23:45$: Elapsed time of entire disc

④ $-36:15$: Remaining time on entire disc

- Only the **SINGLE TIME** displays are shown in the PGM, EDIT and RANDOM modes.

To repeat all discs

All tracks on all of the discs loaded on the disc tray will be played repeatedly.

❶ Press so that the "PGM" indicator goes off.

P.MODE

❷ Press to select REPEAT.

REPEAT

❸ Select the disc to be played first.

DISC SKIP

Goes off.

```
DISC          TRACK NO.   SINGLE TIME   1  2  3  4  5
NO.                                     6  7  8  9  10
                                        11 12 13 14 15
      1 01        0:00                   16 17 18 19 20
```

Each press switches the repeat mode.

① **REPEAT**
② Repeat OFF

Lights.

```
DISC  REPEAT           SINGLE TIME   1  2  3  4  5
NO.                                  6  7  8  9  10
                                     11 12 13 14 15
      1 01        0:00                16 17 18 19 20
```

To cancel repeated playback
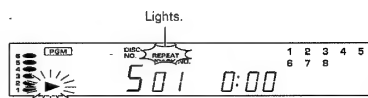
Press the REPEAT key again.

UD-753 only
For the operation of UD-703: →[20] to →[25]

To repeat only the programmed tracks

❶ **Press so that the "PGM" indicator lights.**

P.MODE

❷ **Select the disc.**

DISC SKIP

Within 8 seconds!

❸ **Select the track No.**

❹ **Press to select REPEAT.**

REPEAT

❺ **Start playback.**

Lights.

● If the track No. is not selected within 8 seconds after having selected the disc No., all of the tracks on the disc will be programmed.
● All of the programmed tracks will be played repeatedly.
● Up to 32 tracks can be programmed by repeating steps ❷ and ❸. When "FULL" is displayed, no more tracks can be programmed.

Lights.

To cancel repeated playback

Press the REPEAT key again.

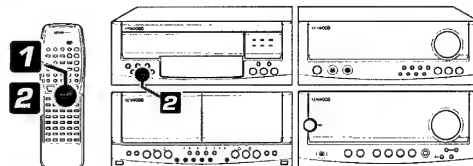# *Playback in a random order (Random playback)*

UD-753 only

For the operation of UD-703: -[20] to -[25]

As Tracks are selected at random, you can enjoy listening to for a long time.

| *Preparation* | • Select the **"CD"** input. |
| -[27] | • Load discs in the CD player. |

1 *Press so that the "PGM" indicator goes off.*

P.MODE

Goes off.

```
DISC                SINGLE TIME    1  2  3  4  5
NO.                                6  7  8  9 10
    TRACK NO.                     11 12 13 14 15
  l 0 1      0:00                 16 17 18 19 20
```

2 *Select discs.*

To select one disc   **To select all discs**

❶ DISC SKIP

❷ RANDOM   RANDOM

Select **RANDOM ONE.**   Select **RANDOM ALL.**

Each press of the **RANDOM** key changes the random playback modes.

① **RANDOM ONE** : Random playback from a single disc.
② **RANDOM ALL** : Random playback from all discs.
③ No indication : Random playback is OFF.

Example when track No. 7 of disc No. 3 is selected first

```
RANDOM  DISC            SINGLE TIME          7
ALL     NO.
            TRACK NO.
►       3 0 7     0:00
```

• After every track, the track number display blinks and the next selected track will be played.

Example when track No. 3 of disc No. 5 is selected next

```
RANDOM  DISC            SINGLE TIME          3
ALL     NO.
            TRACK NO.
►       5 0 3     0:00
```

"RANDOM ONE" or **"RANDOM ALL"** indicator

• Random playback ends when all of the tracks on the disc or the discs have been played once.
• Random playback can be repeated by pressing the **REPEAT** key.

To select another track in the middle of playing one

• Pressing the I◄◄ key once returns to the beginning of the track being played.

To cancel random playback

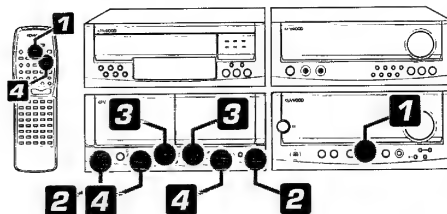**Press so that the "RANDOM" indicator goes off.**

RANDOM

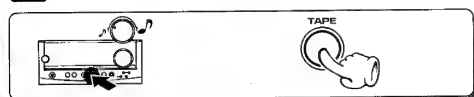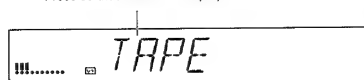• Press the **RANDOM** key to start normal playback.
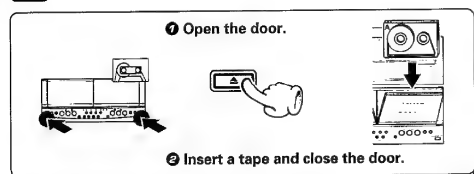
UD-703/753 (En)

34

Tape playback

1 Select the "TAPE" input.

Press so that **"TAPE"** is displayed.

TAPE

III........ 🔊 *TAPE*

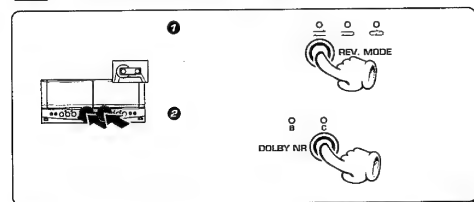## 2 Load a cassette tape.

❶ Open the door.

❷ Insert a tape and close the door.

- The type of tape, that is, Normal, Chrome or Metal, is set automatically.
- Remove tape slack before loading.
- Close the door securely.

3 Determine the playback modes.

❶ REV. MODE

❷ DOLBY NR

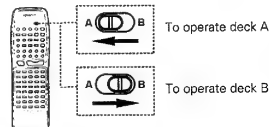Each press switches the modes as follows.
- ① "⟲" .... Endless playback occurs.
- ② "⇄" .... Playback stops after having played a side.
- ③ "⇒" .... Playback stops after having played the two sides.
  (If the ◄ key is pressed, only tape side B will be played and tape will stop after it.)

- ① DOLBY NR "B" .... General NR.
- ② DOLBY NR "C" .... NR with higher performance.
- ③ DOLBY NR "OFF"
  (no indication) .... Dolby NR is not used.
- Select the Dolby NR mode according to the recording condition of the tape.

4 Start playback.

Press the ◄ or ► key. To play side A

To play side B

(when side A is facing toward you)
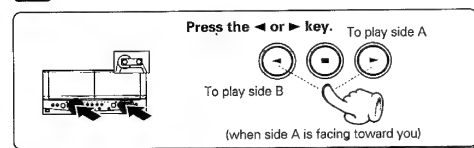
- When the remote control unit is used, set the A/B switch according to the deck to be operated.

A ⬜ B   To operate deck A

A ⬜ B   To operate deck B
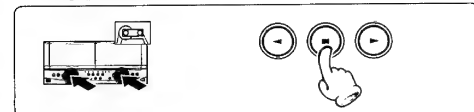
To stop playback

- Do not press the eject key until the tape has stopped completely.

To wind tape at high speed

Press in stop mode.   To fast wind in direction ➡

To fast wind in direction ⬅
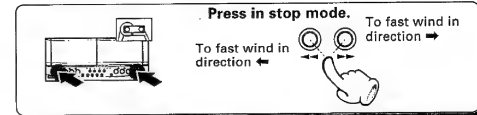
- Press the ■ key to stop fast winding.

Use the following procedure to play tapes in decks A and B alternately.

1 Load tapes.

❶ Select the "TAPE" input.

❷ Insert tapes.

● The tape sides indicated by the tape transport direction indicators will be played.

2 Select the playback modes.

❶

REV. MODE

❷

DOLBY NR

Each press switches the modes as follows.

▶ ① "⊂⊃" .... Relay playback does not occur with this position.

② "⇄" .... Playback stops after having played one side on each of tapes in decks A and B.

③ "⊃" .... The two sides of tapes in decks A and B will be played repeatedly

▶ ① DOLBY NR "B" .... General NR.

② DOLBY NR "C" .... NR with higher performance.

③ DOLBY NR "OFF"

(no indication) .... Dolby NR is not used.

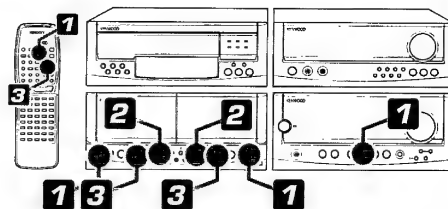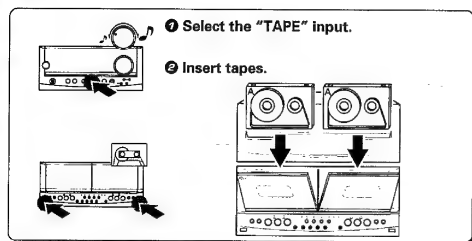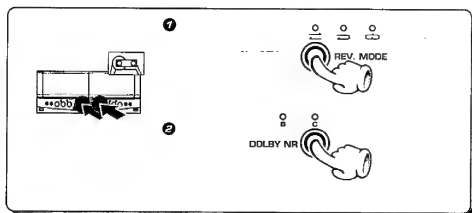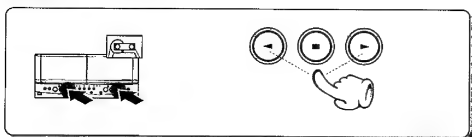● Select the Dolby NR mode according to the recording condition of the tape.

3 Start playback.

● Relay playback starts with the deck corresponding to the pressed key.

Dolby Noise Reduction (NR)

The Dolby NR system is used to minimize the hiss noise heard when playing tape. The system has the B type and C type, and the same type should be used in recording and playback to obtain the noise reduction effect.

When you record a tape, it is recommended to write the type used, "B" or "C", on the cassette label.

Dolby B NR: Generally-used Dolby NR.
Dolby C NR: Features a higher noise reduction effect than the B type.

The use of Dolby C NR is recommended if you record tapes to be played on this unit.

Transport direction indicators

The ◄ and ► indicators indicate the current direction in which the tape advances when playback or recording is started automatically by the easy operation function, etc. This direction is the direction stored in memory when the tape was last stopped.

(To change the direction, press the ► key for the opposite direction then press the ■ key.)
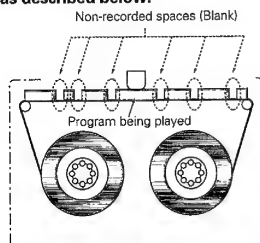
Transport direction indicators

DPSS (Direct Program Search System)

36

The DPSS is capable of detecting non-recorded spaces of more than 4 seconds as "blanks between programs". It can be used in four ways as described below.

Non-recorded spaces (Blank)

Program being played

1. **Skip search** : Plays the desired music program from the beginning by skipping programs until there.
Up to 16 programs can be skipped.

2. **Dash & play** : Plays music programs repeatedly by skipping non-recorded spaces of more than 10 seconds.

3. **One-program repeat playback** : Plays a single music program repeatedly up to 16 times.

4. **Rewind playback** : Rewinds tape to the beginning and restarts playback from there.

Skip search

(Playback in the ► direction)

To play the next program : Press once.
To play the 4th program
after the current program : Press 4 times.

To return to the beginning
of the current program : Press once.
To play the 4th program
before the current program: Press 5 times.

**(Playback in the ◄ direction)**

To return to the beginning
of the current program : Press once.
To play the 4th program
before the current program: Press 5 times.

To play the next program : Press once.
To play the 4th program
after the current program : Press 4 times.

Notes

1. The DPSS cannot be used on decks A and B simultaneously.
2. The DPSS may not function normally with the following kinds of tape.
   - Tapes containing several no-sound intervals of more than 4 seconds, such as conversation and talk tapes.
   - Tapes containing pianissimo sections, such as classical music tape.
   - Tapes in which large noise is recorded in blanks between programs.
   - Tapes containing blanks between programs that are shorter than 4 seconds.
   - Tapes recorded at low level.
   - Tapes recorded by cross-fade recording (in which the beginning of next program is overlapped on the end of previous program).
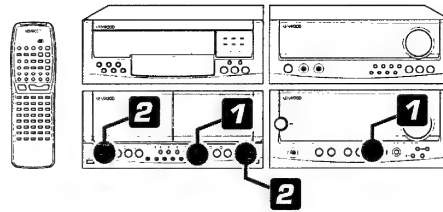
Dash & play

1 Select the playback modes.

❶ Select the "TAPE" input.

❷

REV. MODE
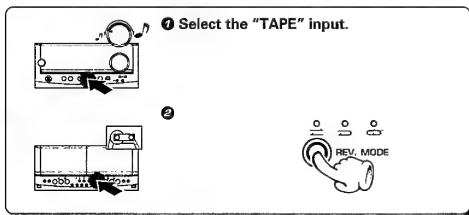
When a non-recorded space of more than 10 seconds is detected during playback, that space is automatically skipped by fast winding to play only the tape sections where sound is recorded.

Each press of the key switches the modes as follows.
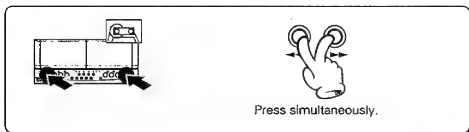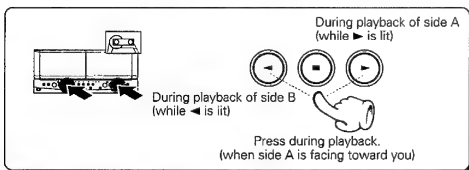- ① "⊂⊃" .... The two tape sides are played 8 times, after which playback stops.
- ② "⇌" .... A tape side is played 8 times, after which playback stops.
- ③ "⊃" .... The two tape sides are played once times, after which playback stops.

● If "⇌" is selected while tapes are present in both decks A and B, Dash & Play of the second deck starts after Dash & Play of the first selected deck has completed. This is repeated 16 times, after which the playback stops.

2 Start dash & play.

Press simultaneously.

| Main unit only |

● When the ■ key is pressed, playback stops and the dash & play is canceled.

One-program repeat playback

During playback of side A (while ► is lit)

During playback of side B (while ◄ is lit)

Press during playback.
(when side A is facing toward you)

● The program being played will be repeated 16 times, after which normal playback resumes.
● When the ■ key is pressed, playback stops and the one-program repeat is canceled.

Rewind playback

| Main unit only |

During playback of side A (while ► is lit)

Press simultaneously.

During playback of side B (while ◄ is lit)

Press simultaneously.
(when side A is facing toward you)
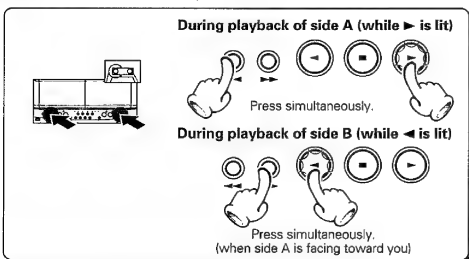
● Tape is rewound until the beginning of the program being played, then its playback starts.

38

It is possible to receive broadcasts by one-touch operations by storing up to 40 stations in the preset memory.

> **Preparation**   ● Select the **"TUNER"** input.

Receiving broadcast station

1 *Select the broadcast band.*

Each press alternates the band.
┌→ ① *FM*
└─ ② *AM* (For U.K. *MW → LW*)

```
┊╻╻╻╻╻╻┊        FM  – –      87.50  MHz
```

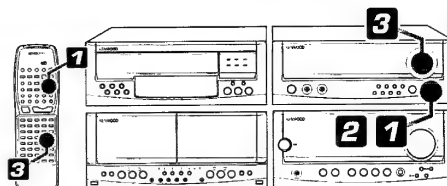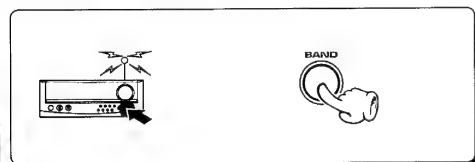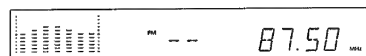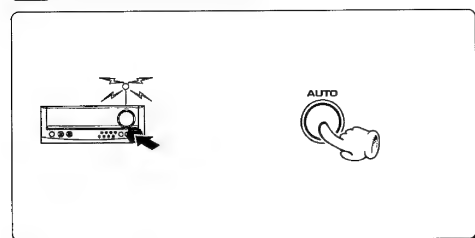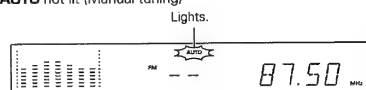**2** *Select the tuning mode.*

Each press alternates the mode.
┌→ ① **AUTO** lit (Auto tuning)
└─ ② **AUTO** not lit (Manual tuning)
                              Lights.

```
┊╻╻╻╻╻╻┊        FM  – –      87.50  MHz
```

● Normally, use the **AUTO** (Auto tuning) mode.

🌼 Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

3 *Select a station.*

TUNING

DOWN   UP
To decrease   To increase
frequency   frequency
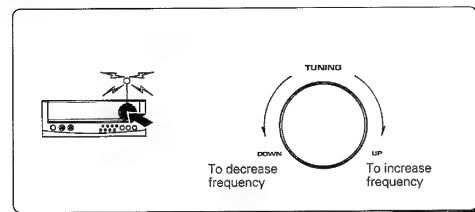
The **"TUNED"** indicator lights when a station is received.
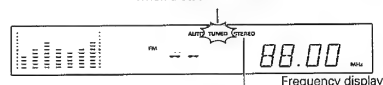
```
┊╻╻╻╻╻╻┊   FM  ͯ ͯ     88.00  MHz
```
                         Frequency display
                  Lights during
                  stereo reception.

🌼 Auto tuning   : Every time the control is rotated, a next station will be received.
   Manual tuning : Frequencies vary continuously while the control is kept rotated.

DISPLAY key
Every time the **DISPLAY** key is pressed, the display contents change.
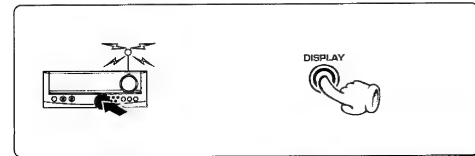
DISPLAY

Each press changes the display as follows.
┌→ ① Frequency display: The frequency being received is displayed.
└─ ② Clock display   : When an operation related to turning is done, these change to the frequency display for a few seconds.

● While the power is OFF, the display shows time of the day.

For the Europe and U.K. models, read the attached booklet.

UD-703/753 (En)

Preparation
- −38

● Receive a station to be stored in preset memory.
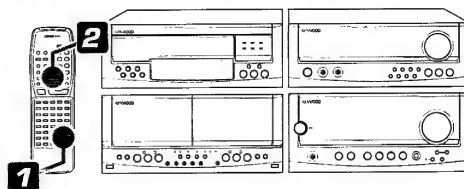
1 Press the ENTER key during reception.

MEMORY lights (for approx. 5 sec.).

AUTO TUNED STEREO MEMORY

88.00 MHz

● The station being received will be stored in preset memory.

Go to step 2 within 5 sec.
If more than 5 seconds have elapsed, press the ENTER key again.

2 Select one of the preset numbers from 1 to 40.

Goes off.

FM AUTO TUNED STEREO

15 88.00 MHz

Press the numeric keys as follows
To store the station in preset "15" : +10 5
To store the station in preset "40" : +10 +10 +10 +10 0

● Repeat steps 1 2 to preset other stations.
● If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.

Receiving a preset station

❶ Select the tuner mode.

INPUT

❷

P.CALL
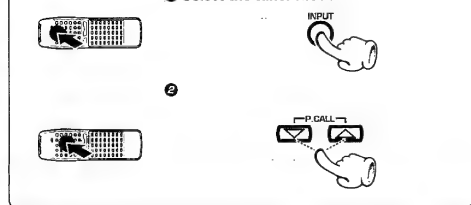
● Every time the key is pressed, the preset stations are switched over as follows.

Press △ for the order of 1→2→3 ... 38→39→40→1...
Press ▽ for the order of 40→39→38 ... 3→2→1→40...

● When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.

Press the numeric keys as follows
To call "15" : +10 5
To call "40" : +10 +10 +10 +10 0

Recording (Deck B only)

40

This unit incorporates the CRLS (Computer Recording Level System), automatic recording level setting and Dolby HX Pro headroom extension to allow excellent sound recording with simple operation.
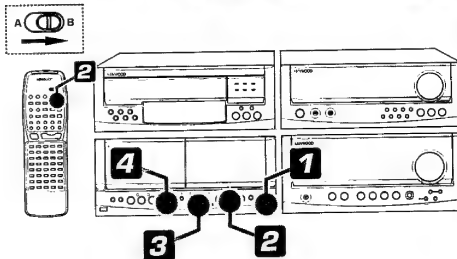
Preparation for recording

1 Load a tape in deck B.
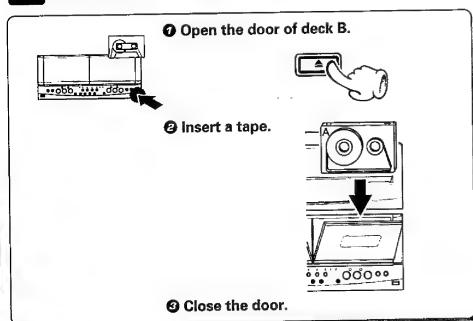
❶ Open the door of deck B.

❷ Insert a tape.

❸ Close the door.

- The type of tape, that is, Normal, Chrome or Metal, is set automatically.
- Remove tape slack before loading.
- When the microphone is not used, set the **MIC MIXING** control fully counterclockwise to the minimum position.

2 Select the tape transport direction.

❶ Press the ► or ◄ key.

To start recording from side A

To start recording from side B

(when side A is facing toward you)
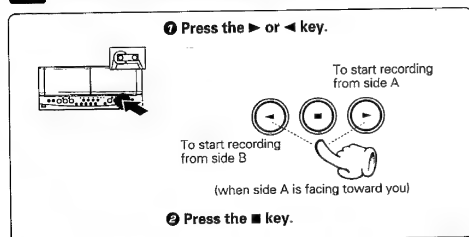
❷ Press the ■ key.

- When recording is started, the tape is transported in the direction selected in this step.
- Wind the tape to the position where recording is to be started.

3 Select the recording mode.

REV. MODE
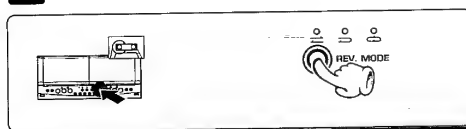
Each press of the key switches the modes as follows.

- ① "⊂⊃" .... (In this case, too, the two tape sides are recorded, after which recording stops.)
- ② "⊐" .... A tape side is recorded, after which recording stops.
- ③ "⊃" .... The two tape sides are recorded, after which recording stops.

4 Select the Dolby NR mode.
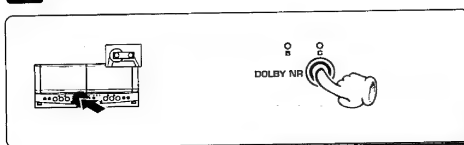
DOLBY NR

Each press of the key switches the modes as follows.

- ① **DOLBY NR "B"** ..... B type (general type).
- ② **DOLBY NR "C"** ..... C type (with higher performance).
- ③ **DOLBY NR "OFF"** (no indication) .... Dolby NR is not used.

Preparation

→ 40

- Load a cassette tape in the deck.
- Select the tape transport direction (◄ or ►).
- Select "⊃", "⊃" (two-side recording) or "⊃" (one- side recording).
- Select the Dolby NR mode.
- (Insert a disc in the CD player.)
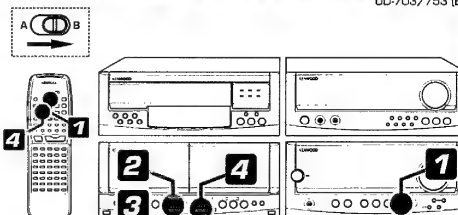
Recording (Deck B only)

1 Select the source to be recorded.

Select an input source other than "TAPE".

MD   TAPE   TUNER   CD

The source component to be recorded should be displayed.

```
III.......  ₐ  TUNER
```

- When the CD input is selected and if a disc has been set in the CD player, its playback starts immediately.

2 Start auto-bias adjustment.

Blinks.   Approx.   Lights.
AUTO BIAS   45 sec.   AUTO BIAS   End

- The bias adjustment consists of checking the characteristics of the loaded tape and adjusting the deck to allow best-balanced recording. The adjustment data are held in memory unless the power is turned OFF or the door of deck B is opened, so it is not required to re-adjust the bias in case of re- recording.
- The bias adjustment is completed in approx. 45 seconds, after which the deck enters the stop mode.
- To stop bias adjustment in the middle, press the ■ key.
- Even if the bias adjustment is not performed, there will be no trouble in recording because a general bias has been set depending on the Normal, Chrome or Metal type of tape.

3 Start auto recording level adjustment.

❶ Play the contents to be recorded (or receive the radio station to be recorded).

Blinks.   Approx.   Lights.
CRLS   20 sec.   CRLS   End
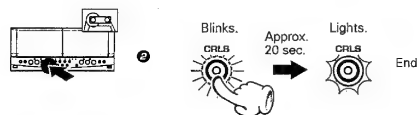
- The recording level setting is completed in approx. 20 seconds, after which the deck enters the record-pause mode.
- If recording is started during the setting (while the CRLS indicator is blinking), distorted sound may be recorded.
- If the **CRLS** key is pressed during the setting (while the indicator is blinking), the setting is interrupted and the deck enters the record-pause mode.
- If a non-recorded space of more than 3 seconds is detected after the **CRLS** key is pressed, the recording level setting is aborted.

4 Start recording.

❶ Play the contents to be recorded (or receive the station to be recorded).

❷

● REC/ARM
Lights.
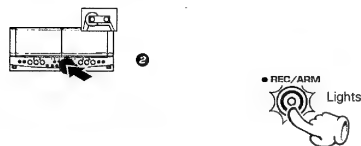
If the CD track to be recorded is selected without pressing the ■ key, recording on the cassette deck starts automatically. (Synchro recording)

- Recording starts.
- Recording stops automatically when the tape side(s) to be recorded have been recorded.

Function of CRLS key

The CRLS sets the recording level automatically in 20 seconds by analyzing the sound to be recorded.

If the key has never been pressed

The sound is recorded with the basic level set with the unit.

If the key is pressed

The recording level is set automatically and stored in memory as the recording level to be used with the current input being selected (CD, TUNER, AUX, etc.). From the next time on, this recording level is set automatically for that input even if the key is not pressed.

To return to the level used in previous recording

Press the ■ key while the **CRLS** indicator is blinking.

To return to the basic level

Hold the key depressed until the indicator goes off (for approx. 3 seconds).

Re-recording

❶ **Rewind tape without stopping recording.**

During recording of side B (◀)

During recording of side A (▶)

(when side A is facing toward you)

❷ **Press the ● key twice.**

Blinks.
● REC/ARM → II PAUSE ● REC/ARM

❸ **Press the ● key once.**

Lights.
● REC/ARM
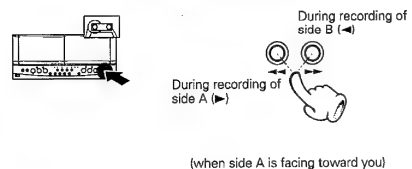
● In case there is a non-recorded blank of more than 4 seconds immediately before the recording start position, recording is aborted and tape is rewound as shown below.

Tape stops after 2 sec. of transport.
Recorded tune
Tune to be re-recorded
Blank of 4 sec. or more
Re-recording
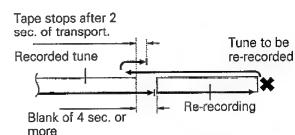
● If there is no recorded tune before, the tape will be rewound then stopped.

● After leaving a non-recorded blank of about 4 seconds, the deck enters the record-pause mode.
● When re-recording from the beginning of tape, feed the leader tape (the first portion of tape that cannot be recorded) before starting re-recording.

● Recording will start.

To pause recording temporarily

Lights.
II PAUSE
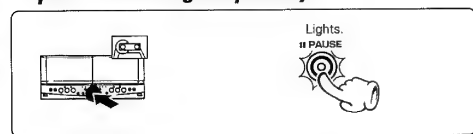
● Press the ● **REC/ARM** key to restart recording.

To end recording in the middle
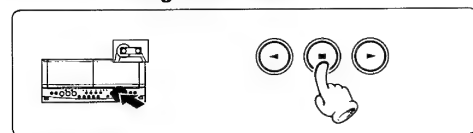
Dolby HX Pro

The Dolby HX Pro headroom extension system records high frequencies such as the cymbal sound clearly by controlling the bias current during recording according to the frequency composition of the sound being recorded. This system is activated automatically during recording with this unit.

42

UD-703/753 (En)

Preparation

- Select the tape transport direction (◄ or ►).
- Select "⊂⊃", "⊃" (two-side recording) or "⊒" (one- side recording).

→ 40

Playing tape

Recording tape

Deck A   Deck B

Lights.   Lights.
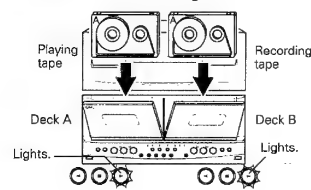
The contents of the tape in deck A can be copied onto the tape in deck B.
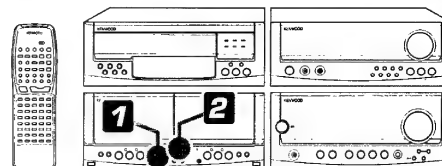
1 Start auto-bias adjustment.

Blinks.   Approx. 45 sec.   Lights.

AUTO BIAS → AUTO BIAS   End

- The bias adjustment consists of checking the characteristics of the loaded tape and adjusting the deck to allow best-balanced recording. The adjustment data are held in memory unless the power is turned OFF or the door of deck B is opened.
- The bias adjustment is completed in approx. 45 seconds, after which the deck enters the stop mode.
- To stop bias adjustment in the middle, press the ■ key.
- Even if the bias adjustment is not performed, there will be no trouble in recording because a general bias has been set depending on the Normal, Chrome or Metal type of tape.
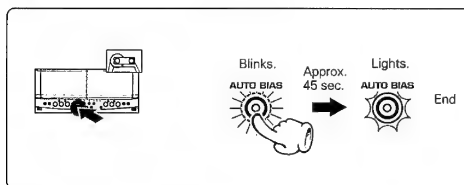
2 Start dubbing.

For high-speed dubbing   For normal-speed dubbing

○ DUBB. ○   ○ DUBB. ○
NOR.   HIGH   NOR.   HIGH
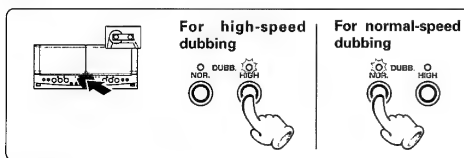
- Dubbing starts.
- Dubbing ends automatically when the side(s) to be dubbed has been completed.

To stop dubbing

◄ ■ ►

Press the ■ key of deck B.
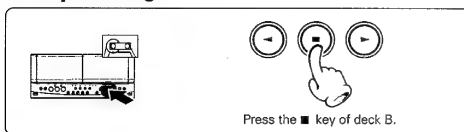
- Both decks A and B stops.

To pause dubbing

For high-speed dubbing   For normal-speed dubbing

○ DUBB. ○   ○ DUBB. ○
NOR.   HIGH   NOR.   HIGH
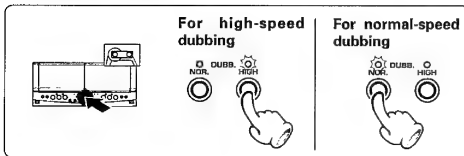
- Only deck B enters the record-pause mode after leaving a non-recorded space of approx. 4 seconds in case of normal-speed dubbing or approx. 6 seconds in case of high-speed dubbing.
- To skip a tune which need not to be dubbed, press the ►► key of deck A.
- To restart dubbing, press the **DUBB. NOR.**, or **DUBB. HIGH** key which was pressed to pause dubbing.

Notes
1. The recording level adjustment is not necessary in dubbing.
2. The **DOLBY NR** key is not active in dubbing mode. The tape recorded on deck B is given the same Dolby NR condition as the tape played on deck A.
3. To prevent interference of noise, the unit should be separated at a distance from a TV during high-speed dubbing.
4. To avoid sound quality degradation, use the normal-speed dubbing when dubbing from a tape recorded with a high recording level.

CD edit recording

UD-703/753 [En]

44

UD-703 only
For the operation of UD-753: →52 to →59

The following procedures allow edit recording of CDs by simply setting the length (recording time) of the tape. All other operations will be assumed by the UD system, from the recording level and bias settings to the complicated processing at the end of two sides of tape. (CCRS)

Select the type of edit recording

START!!

Do you care about the order of tracks?

Yes / No

How should the order of tracks be?

In the desired order / As recorded on the CD

③ **Timed edit recording**

① **Program edit recording**

Is the tape recording time enough for the CD?

Yes / No

④ **AI edit recording**

How should the interval between tunes be?

Cross-faded (two tunes overlapped) / Space (same as recording on CD)

② **Cross-fade edit recording**

⑤ **Fade edit recording**

CCRS (Computer Controlled Recording System)

The CCRS allows to record CD on tape with a one-touch operation.
When the CCRS key is pressed, the contents of CD and the characteristics of the tape used are checked in approx. 90 seconds (variable depending on CD contents), the recording level and bias are automatically set accordingly and recording starts. After the recording, it is also stopped automatically.
The auto bias setting is cleared when the power is turned OFF or the door of deck B is opened. (The "AUTO BIAS" indicator is lit while the auto bias data is held in memory.)
The edited data is cleared when the power is turned OFF or when the CD is stopped.

Fade-in/fade-out

| Volume decreases gradually. | Volume increases gradually. | Sounds are overlapped. |

1st tune   2nd tune   3rd tune

Fade-out   Fade-in   Cross-fade

Fade-out : Ending a tune by gradually decreasing the volume.
Fade-in : Starting a tune by gradually increasing the volume.
Cross-fade : Combination of fade-out and fade-in so that the sounds of two tunes are overlapped.

---

1 Program edit recording   –46

CD tracks are recorded in the order they are programmed. The tune interrupted at the end of tape side A is erased and side B starts from the beginning of that tune. (Up to 32)
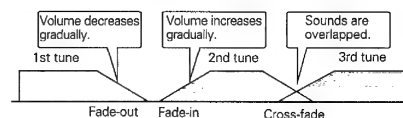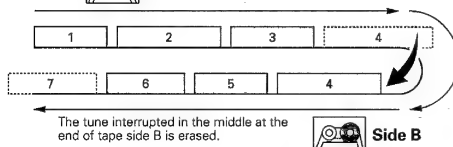
Side A

| 1 | 2 | 3 | 4 |
| 7 | 6 | 5 | 4 |

The tune interrupted in the middle at the end of tape side B is erased.   Side B

4 AI edit recording   –48

In case the recording time of tape is shorter than the playing time of CD, all of CD tracks (Up to 32) are accommodated by fading out the ending parts.

Side A

| 1 | 2 | 3 | 4 |
| 8 | 7 | 6 | 5 |

Side B

2 Cross-fade edit recording   –47

Tunes are connected by fade-out and fade-in, and the tune interrupted at the end of tape side A is re-recorded at the beginning of tape side B.

Side A

| 1 | 2 | 3 | 4 | 5 |
| 8 | 7 | 6 | 5 |

The tune interrupted in the middle at the end of tape side B is left as it is.   Side B

The cross-fade edit recording can be combined with a desired edit recording function (except for AI edit recording).

5 Fade edit recording   –50

CD tracks are recorded in the order they are recorded. The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. (Up to 32)

Side A

| 1 | 2 | 3 | 4 |
| 7 | 6 | 5 | 4 |
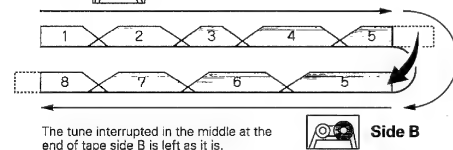
The tune interrupted in the middle at the end of tape side B is simply faded out.   Side B
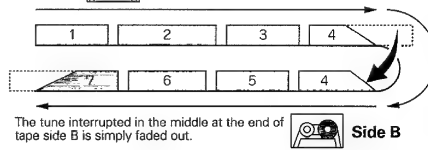
3 Timed edit recording   –49

The order of CD tracks are changed automatically so that no tune is interrupted at the end of tape sides A and B. (Up to 32)

Side A

| PGM -1 | PGM -2 | 3 | 7 |
| 8 | 6 | 5 | 4 |
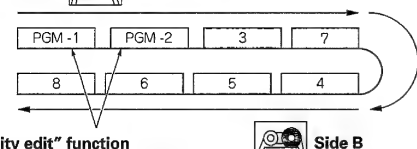
"Priority edit" function   Side B
The programmed CD tracks are recorded in priority over other CD tracks.

Program edit recording

Use the following procedure to record CD tracks in the order programmed by yourself so that no tune is interrupted in the middle at the ends of tape sides.

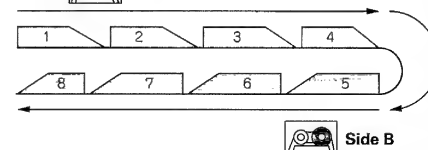The tune interrupted at the end of tape side A is erased and side B starts from the beginning of that tune.

UD-703 only
For the operation of UD-753: –[52] to –[59]

Preparation

–[40]

- Load a cassette tape in the deck B.
- Select the tape transport direction (◄ or ►).
- Select " ⊂⊃ "," ⊂⊐ " (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.

---

1 Press so that the "PGM" indicator lights.

P.MODE

Lights.   "SINGLE TIME" changes to "TOTAL TIME".

TRACK NO.   1 2 3 4 5
PGM   TOTAL TIME 6 7 8 9 10

0 1 - 0:00

---

2 Enter CD track Nos. in the order you want to record them. (Editing)

To check the edited contents
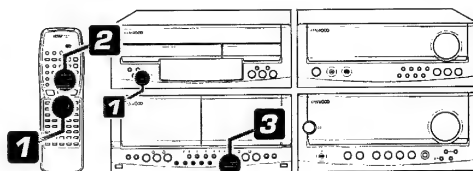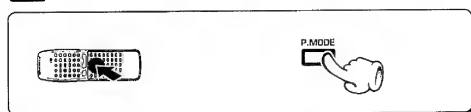To clear the edited contents   –[51]
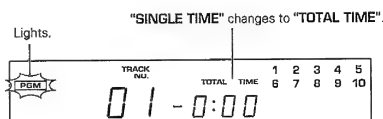
Press the numeric keys as shown below.
To enter track Nos. 2, 5 and 25 : [2] [5] [+10] [+10] [5]

Displays the entered track No. for a few seconds.

TRACK NO.   2
PGM ►

02 P - 01

Displays the total playing time of the programmed CD tracks.

TRACK NO.   2 3   5
PGM ►   TOTAL TIME   7 9

02 16:42
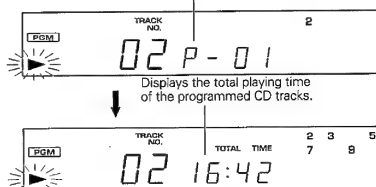
- Select CD tracks so that their total playing time does not exceed the recording time of the tape.
- Up to 32 tracks can be programmed. When "FULL" is displayed, no more tracks can be programmed.
- If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
- Track numbers can also be selected while the tray is open.

---

3 Start edit recording.
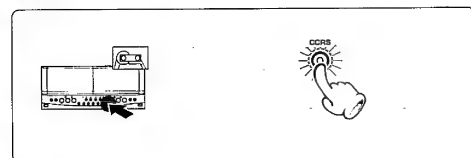
CCRS

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.

Notes

1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (⊂⊐), the processing at the tape end is applied only on side A.

Cross-fade edit recording

The cross-fade editing may be easier to understand by saying that it is a function for cross-fading tunes rather than saying that it edits the order of tunes. This function can be used in combination with the desired editing method as well as in simple recording of CD tracks in the order they are recorded on the CD.

Preparation

→ 40

- Load a cassette tape in deck B.
- Select the tape transport direction (◀ or ▶).
- Select "⊏⊐","⊐" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
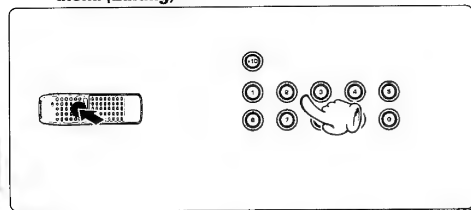- Insert disc(s) in the CD player.

UD-703 only
For the operation of UD-753: →52 to →59

1 **Apply desired editing to the CD tracks.**
(Go directly to step **2** below if CD tracks are to be recorded in the order they are recorded on the CD.)

Program editing   →46
Timed editing   →48

- After the editing operation, do not press the **CCRS** key, but return to this page and go to step **2**. If the **CCRS** key is pressed after editing, the corresponding edit recording will start in place of cross-fade recording.

2 **Start edit recording.**
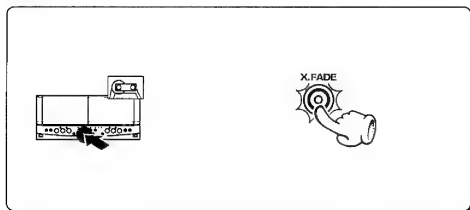
- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.

Notes

1. If a CD track which has already been faded in or out is recorded by cross-fade recording, the space between the adjacent tune may become very long.
2. When the timed edit and cross-fade edit recording are combined, the spaces at the two extremities of A and B increase for the amount the space is increased due to cross-fading.

Timed edit recording

By specifying the recording time of the tape used, CD tracks can be recorded with their order automatically changed so that no tune is interrupted at the end of tape sides A and B.
If there are favorite CD tracks to be recorded in priority over others, they can be recorded in the beginning of tape by programming them. (Priority edit function)

UD-703/753 (En)

UD-703 only
For the operation of UD-753: –[52] to –[69]

Preparation

–[40]

- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "⊂⊃","⊃" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
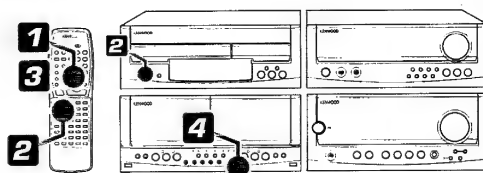- Insert a disc in the CD player.

---

1 Select the CD tracks to be recorded in priority
(Priority editing)
(Go to step 2 if this operation is not required.)

❶ Check that the "PGM" indicator is lit.

❷ Enter CD track Nos.

Press the numeric keys as shown below...
To enter track Nos. 2: [2]
To enter track Nos. 25: [+10] [+10] [5]

To check the edited contents
To clear the edited contents →[51]

● The REPEAT key is invalid.

---

2 Light the "EDIT" indicator.

EDIT MODE

Press so that the "EDIT" indicator lights.

TRACK NO.   1 2 3 4 5
            6 7 8 9 10
PGM EDIT   11 12 13 14 15
            16 17 18 19 20

Go to step 3 within 8 seconds.

If more than 8 seconds have elapsed, select the mode again.

● To use the auto-space function, press the SPACE key after having pressed the EDIT MODE key and go to step 3. To cancel the auto-space function, press the P.MODE key and restart the recording procedure from the beginning.   →[23]

---

3 Enter the recording length of the tape.

Press the numeric keys as shown below.
30-minute tape : [+10] [+10] [+10] [0]
46-minute tape : [+10] [+10] [+10] [+10] [6]

46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the TIME key for the required number of times. (The recording time can be adjusted in 1-minute steps with the I◀◀ and ▶▶I keys.)
After entry, press the EDIT MODE key then proceed to step 4.

● Up to 32 tracks can be edited.
● CD tracks will be edited automatically onto tape sides A and B. After editing, the "EDIT" indicator stops blinking and starts to light steadily.

---

4 Start edit recording.

CCRS

● The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
● The tape and CD stop automatically when recording has completed.

AI edit recording

In case the recording time of tape is shorter than the playing time of the CD to be recorded, all of CD tracks can be accommodated by fading out the ending parts.

UD-703 only
For the operation of UD-753: → [52] to → [59]

Preparation
→ [40]

- Load a cassette tape in the deck B.
- Select the tape transport direction (◀ or ▶).
- Select "⊂⊃","⊃" (two-side recording).
- Select the Dolby NR mode.
- Select the **"CD"** input.
- Insert a disc in the CD player.

---

1 Check that the "TRACK" indicator is lit.

P.MODE

Lights.

```
TRACK          TRACK        SINGLE TIME   1  2  3  4  5
NO.                                       6  7  8  9  10
  01    0:00                                11
```

- If the **"TRACK"** indicator is not lit, press the **P.MODE** key to light it.

---

2 Light the "AI EDIT" indicator.
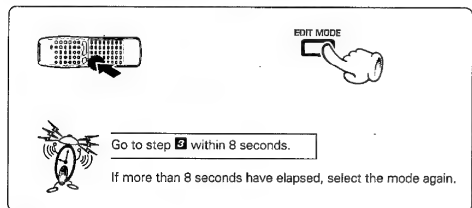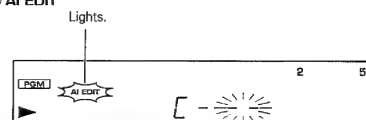
EDIT MODE

Each press switches the edit modes as follows.
┌─ ① **EDIT**
└─ ② **AI EDIT**

Lights.

```
PGM   AI EDIT                  2        5
 ►              C -
```

- The **SPACE** key and **REPEAT** key are invalid.

Go to step **3** within 8 seconds.

If more than 8 seconds have elapsed, select the mode again.

---

3 Enter the recording length of the tape.
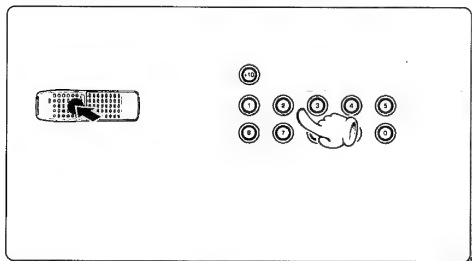
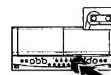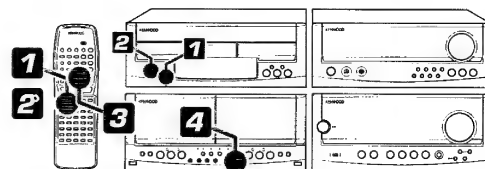Press the numeric keys as shown below.
30-minute tape : +10 +10 +10 0
46-minute tape : +10 +10 +10 +10 6

46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the **TIME** key for the required number of times.
(The recording time can be adjusted in 1-minute steps with the ◄◄ and ►►| keys.)
After entry, press the **EDIT MODE** key then proceed to step **4**.

- CD tracks will be edited automatically onto tape sides A and B. After editing, the **"AI EDIT"** indicator stops blinking and starts to light steadily.
- If an extremely short time is specified, editing may not occur or the CD tracks programmed for AI priority editing may be faded out.

---

4 Start edit recording.

CCRS

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
- The tape and CD stop automatically when recording has completed.

Fade edit recording

The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. The tune interrupted at the end of tape side B is simply faded out.

UD-703 only
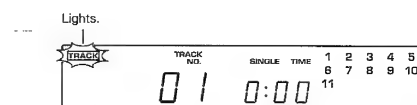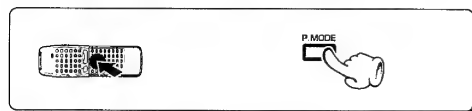For the operation of UD-753: –[52] to –[59]

Preparation
–[40]

- Load a cassette tape in the deck B.
- Select the tape transport direction (◄ or ►).
- Select "⊃","⇒" (two-side recording).
- Select the Dolby NR mode.
- Select the "CD" input.
- Insert a disc in the CD player.

1 Check that the "TRACK" indicator is lit.

P.MODE

Lights.

TRACK   TRACK   SINGLE   TIME   1 2 3 4 5
          NO.   6 7 8 9 10
         0 1   *0:00*   11

- If the **"TRACK"** indicator is not lit, press the **P.MODE** key to light it.

2 Start edit recording.

CCRS

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
- The CD tracks are recorded in the order they are recorded on the CD.
- The tape and CD stop automatically when recording has completed.

Notes
1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (⇌), the processing at the tape end is applied only on side A.
5. When the last tune of tape side B is faded out, the ending part of the last but one tune may sometimes be faded out if the space between it and the last tune is short.

UD-703 only
For the operation of UD-753: →52 to →59

To check the edited contents | Remote control unit only
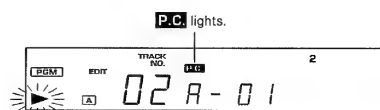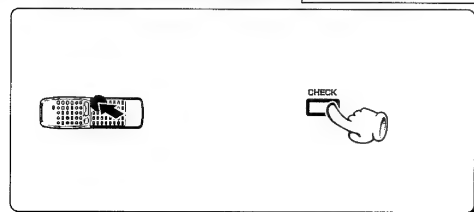
P.C. lights.

```
 PGM            TRACK                    2
        EDIT    NO.  P.C.
              02 R-01
   A
```

● Each time the key is pressed, the edited CD track Nos. are displayed in order.
● The **"P.C."** indicator goes off in a few seconds.

To clear the edited contents

P.MODE

or
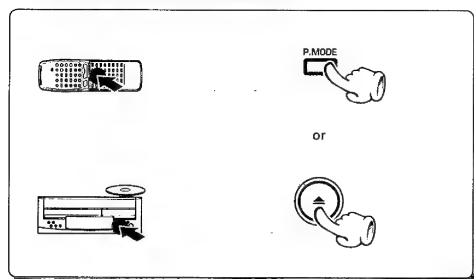
● The edited data is cleared entirely.

UD-703/753 (En)

The following procedures allow edit recording of CDs by simply setting the length (recording time) of the tape. All other operations will be assumed by the UD system, from the recording level and bias settings to the complicated processing at the end of two sides of tape. (CCRS)

Desired CD tracks of more than one CD can be edited in the desired order. In this case, use the "program edit recording" procedure.

UD-753 only
For the operation of UD-703: –[44] to –[61]

Select the type of edit recording

START!!

How many CDs do you record on a tape?

2 or more

Only 1

Do you care about the order of tracks?

Yes   No

How should the order of tracks be?

In the desired order

As recorded on the CD

3 **Timed edit recording**

1 **Program edit recording**

Is the tape recording time enough for the CD?

Yes   No

4 **AI edit recording**

How should the interval between tunes be?

Cross-faded (two tunes overlapped)

Space (same as recording on CD)

2 **Cross-fade edit recording**

5 **Fade edit recording**

CCRS (Computer Controlled Recording System)

The CCRS allows to record CD on tape with a one-touch operation.
When the CCRS key is pressed, the contents of CD and the characteristics of the tape used are checked in approx. 90 seconds (variable depending on CD contents), the recording level and bias are automatically set accordingly and recording starts. After the recording, it is also stopped automatically.
The auto bias setting is cleared when the power is turned OFF or the door of deck B is opened. (The "AUTO BIAS" indicator is lit while the auto bias data is held in memory.)
The edited data is cleared when the power is turned OFF or when the CD is stopped.

52

UD-753 only
For the operation of UD-703: →44 to →51

Fade-in/fade-out
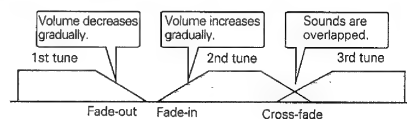
| Volume decreases gradually. | Volume increases gradually. | Sounds are overlapped. |

1st tune   2nd tune   3rd tune

Fade-out   Fade-in   Cross-fade

Fade-out   : Ending a tune by gradually decreasing the volume.
Fade-in   : Starting a tune by gradually increasing the volume.
Cross-fade : Combination of fade-out and fade-in so that the sounds of two tunes are overlapped.

---

1 Program edit recording →54

From one CD

CD tracks are recorded in the order they are programmed. The tune interrupted at the end of tape side A is erased and side B starts from the beginning of that tune. (Up to 32)

Side A

| 1 | 2 | 3 | 4 |
| 7 | 6 | 5 | 4 |

The tune interrupted in the middle at the end of tape side B is erased.
Side B

From more than one CD

CD tracks of several CDs are recorded in the order they are programmed. The tune interrupted in the middle at the end of tape side A is erased and side B starts from the beginning of that tune. (Up to 32)

Side A

← 1st. CD →	← 2nd. CD →
1	2	3	4
7	6	5	4
← 3rd. CD →	← 2nd. CD →

The tune interrupted in the middle at the end of tape side B is erased.   Side B

2 Cross-fade edit recording →55

Tunes are connected by fade-out and fade-in, and the tune interrupted at the end of tape side A is re-recorded at the beginning of tape side B.

Side A

| 1 | 2 | 3 | 4 | 5 |
| 8 | 7 | 6 | 5 |

The tune interrupted in the middle at the end of tape side B is left as it is.   Side B
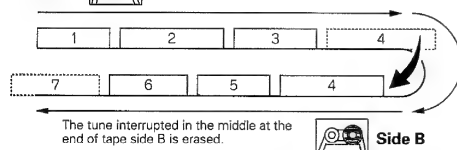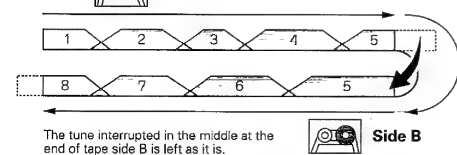
The cross-fade edit recording can be combined with a desired edit recording function (except for AI edit recording).

---

3 Timed edit recording →56

The order of CD tracks are changed automatically so that no tune is interrupted at the end of tape sides A and B. (Up to 32)

Side A

| 1 | 2 | 3 | 5 |
| 8 | 7 | 6 | 4 |

Side B
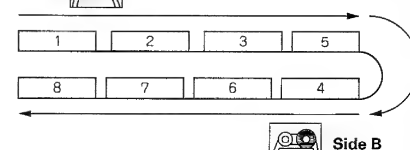
4 AI edit recording →57

In case the recording time of tape is shorter than the playing time of CD, all of CD tracks (Up to 32) are accommodated by fading out the ending parts.

Side A

| 1 | 2 | 3 | 4 |
| 8 | 7 | 6 | 5 |

If the specified tape recording length is long enough, all CD tracks will be recorded without being faded out.   Side B
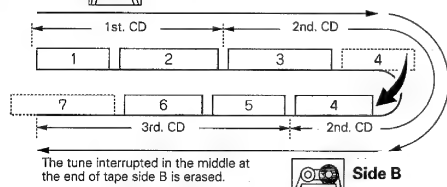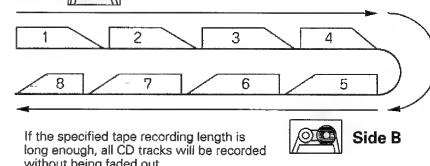
5 Fade edit recording →58

CD tracks are recorded in the order they are recorded. The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. (Up to 32)

Side A

| 1 | 2 | 3 | 4 |
| 7 | 6 | 5 | 4 |

The tune interrupted in the middle at the end of tape side B is simply faded out.   Side B

Use the following procedure to record CD tracks in the order programmed by yourself so that no tune is interrupted in the middle at the ends of tape sides.
The tune interrupted at the end of tape side A is erased and side B starts from the beginning of that tune.

54

UD-753 only
For the operation of UD-703: → 44 to → 51

Preparation
→ 40
- Load a cassette tape in deck B.
- Select the tape transport direction (◄ or ►).
- Select " ⊂⊃ ", " ⊐ " (two-side recording).
- Select the Dolby NR mode.
- Select the **"CD"** input.
- Insert disc(s) in the CD player.

---

1 ## Press so that the "PGM" indicator lights.

P.MODE

Lights.

Only **"SINGLE TIME"** display is shown in PGM mode.
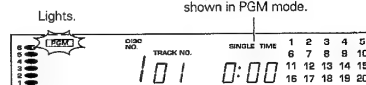
```
PGM  DISC NO.  TRACK NO.   SINGLE TIME   1  2  3  4  5
                                         6  7  8  9 10
     | 0 |     0:00                     11 12 13 14 15
                                        16 17 18 19 20
```

---

2 ## Enter disc Nos. and track Nos. in the order you want to record them. (Editing)

❶ **Enter the disc No.**

DISC SKIP

Within 8 seconds!

❷ **Enter the track No.**

To edit tracks from more than one CD, repeat ❶ and ❷ for each CD.

To check the edited contents
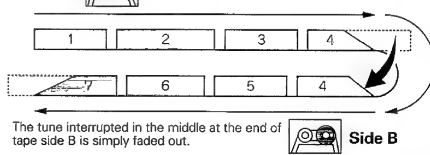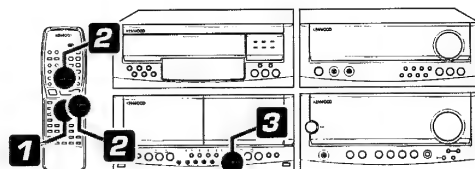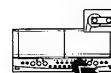To clear the edited contents   → 59

Press the numeric keys as shown below....
To enter track Nos. 2, 5 and 25: [2] [5] [+10] [+10] [5]

Displays the entered track No.

```
PGM  DISC NO.  TRACK NO.                    2
     | 02   P- 0 |
```
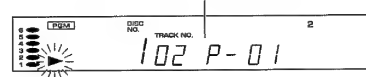
- Select CD tracks so that their total playing time does not exceed the recording time of the tape.
- Up to 32 tracks can be programmed. When *"FULL"* is displayed, no more tracks can be programmed.
- If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
- The CCRS setting will not occur if the track No. is not selected within 8 seconds after having selected the disc No.
- The **REPEAT** key is invalid.

---

3 ## Start edit recording.

CCRS

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
- In editing from more than one CD, the CCRS setting operation is performed after every disc change. In this case, the deck stops automatically and restart recording after having completed the CCRS operation.

Notes

1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparation for edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (⊐), the processing at the tape end is applied only on side A.

Cross-fade edit recording

The cross-fade editing may be easier to understand by saying that it is a function for cross-fading tunes rather than saying that it edits the order of tunes. This function can be used in combination with the desired editing method as well as in simple recording of CD tracks in the order they are recorded on the CD.

Preparation

−[40]

- Load a cassette tape in deck B.
- Select the tape transport direction (◄ or ►).
- Select "⊂⊃","⊃" (two-side recording).
- Select the Dolby NR mode.
- Select the **"CD"** input.
- Insert disc(s) in the CD player.

UD-753 only
For the operation of UD-703: →[44] to −[81]

In case the order of tracks on CD is to be edited

❶ Perform the editing steps of program or timed edit recording.

     Program editing   −[64]
     Timed editing   −[66]

❷ Start edit recording.

X.FADE

- After the editing operation, do not press the **CCRS** key, but return to this page and go to step ❷. If the **CCRS** key is pressed after editing, the corresponding edit recording will start in place of cross-fade recording.

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.

In case the CD tracks are to be recorded in the order they are recorded on CDs

❶ Select the disc to be recorded.

① ② ③ DISC SELECTOR
④ ⑤ ⑥

❷ Start edit recording.

X.FADE

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.

Notes

1. If a CD track which has already been faded in or out is recorded by cross-fade recording, the space between the adjacent tune may become very long.
2. When the timed edit and cross-fade edit recording are combined, the spaces at the two extremities of A and B increase for the amount the space is increased due to cross-fading.

By specifying the recording time of the tape used, CD tracks can be recorded with their order automatically changed so that no tune is interrupted at the end of tape sides A and B.

UD-753 only
For the operation of UD-703: –44 to –51

Preparation
–40

● Load a cassette tape in deck B.
● Select the tape transport direction (◄ or ►).
● Select "⊂⊃","⊐" (two-side recording).
● Select the Dolby NR mode.
● Select the **"CD"** input.
● Insert disc(s) in the CD player.

---

1 *Press so that the "PGM" indicator goes off.*

P. MODE

Should be OFF.

DISC NO. TRACK NO. SINGLE TIME 1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20

1 01   *0:00*

---

2 *Light the "EDIT" indicator.*

EDIT MODE

Go to step **3** within 8 seconds.
If more than 8 seconds have elapsed, select the mode again.

Each press switches the edit modes as follows.
┌─ ① **EDIT**
└─ ② **AI EDIT**   Press so that the "EDIT" indicator lights.
Lights.

PGM DISC NO. 1 2 3 4 5
EDIT 6 7 8 9 10
11 12 13 14 15
d I SC 16 17 18 19 20

● To use the auto-space function, press the **SPACE** key after having pressed the **EDIT MODE** key and go to step **3**. To cancel the auto-space function, press the **P. MODE** key and restart the recording procedure from the beginning.   –30

---

3 *Enter the disc and tape conditions.*

❼ **Enter the disc No.**

DISC SKIP

Within 8 seconds !

❽ **Press the EDIT MODE key.**

EDIT MODE

Within 8 seconds !

❾ **Enter the recording length of the tape.**

PGM DISC NO. 1 2 3 4 5
EDIT 6 7 8 9 10
11 12 13 14 15
1   *C* 16 17 18 19 20

Press the numeric keys as shown below.
30-minute tape : +10 +10 +10 0
46-minute tape : +10 +10 +10 +10 6

46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the **TIME** key for the required number of times. (The recording time can be adjusted in 1-minute steps with the I◄◄ and ►►I keys.)
After entry, press the **EDIT MODE** key then proceed to step **4**.

● Up to 32 tracks can be edited.
● CD tracks will be edited automatically onto tape sides A and B. After editing, the "EDIT" indicator stops blinking and starts to light steadily.
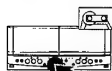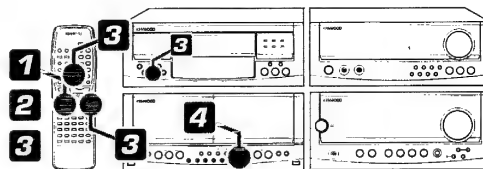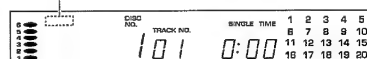
---

4 *Start edit recording.*

● The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
● The tape and CD stop automatically when recording has completed.

56

UD-703/753 [En]

In case the recording time of tape is shorter than the playing time of the CD to be recorded, all of CD tracks can be accommodated by fading out the ending parts.

UD-753 only
For the operation of UD-703: -[44] to -[51]

Preparation

-[40]

- Load a cassette tape in deck B.
- Select the tape transport direction (◄ or ►).
- Select "⊏⊐","⊐" (two-side recording).
- Select the Dolby NR mode.
- Select the **"CD"** input.
- Insert disc(s) in the CD player.

---

1 Press so that the "PGM" indicator goes off.

P.MODE

---

2 Light the "AI EDIT" indicator.

EDIT MODE

Go to step **3** within 8 seconds.

If more than 8 seconds have elapsed, select the mode again.

---

3 Enter the disc and tape conditions.

❶ Enter the disc No.

DISC SKIP

Within 8 seconds !

❷ Press the EDIT MODE key.

EDIT MODE

Within 8 seconds !

❸ Enter the recording length of the tape.

---

4 Start edit recording.

CCRS

When you repeat AI edit recording (CCRS), be sure to start from step **1**.

Should be OFF.

Each press switches the edit modes as follows.

- ① **EDIT**
- ② **AI EDIT**

Press so that the **"AI EDIT"** indicator lights.

Lights.

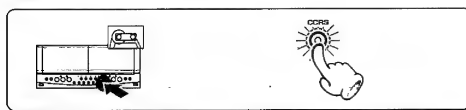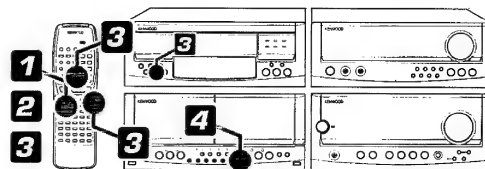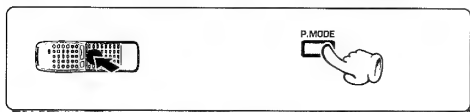

- The **SPACE** key and **REPEAT** key are invalid.

Press the numeric keys as shown below....
30-minute tape: [+10] [+10] [+10] [0]
46-minute tape: [+10] [+10] [+10] [+10] [6]

46-, 54-, 60- or 90-minute tapes can be selected simply by pressing the **TIME** key for the required number of times. (The recording time can be adjusted in 1-minute steps with the I◄◄ and ►►I keys.)
After entry, press the **EDIT MODE** key then proceed to step **4**.

- CD tracks will be edited automatically onto tape sides A and B. After editing, the **"AI EDIT"** indicator stops blinking and starts to light steadily.
- If an extremely short time is specified, editing may not occur or the CD tracks programmed for AI priority editing may be faded out.

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
- The tape and CD stop automatically when recording has completed.

Fade edit recording

58

The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. The tune interrupted at the end of tape side B is simply faded out.

UD-753 only
For the operation of UD-703: →44 to →61

Preparation

→40

- Load a cassette tape in the deck B.
- Select the tape transport direction (◄ or ►).
- Select "⊂⊃", "⊐" (two-side recording).
- Select the Dolby NR mode.
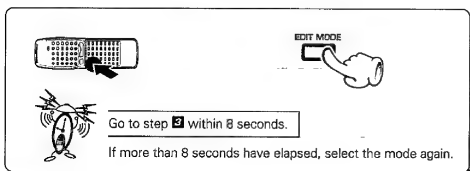- Select the **"CD" input.**
- Insert a disc(s) in the CD player.

---

1 Press so that the "PGM" indicator goes off.

P.MODE

Should be OFF.

```
DISC          1  2  3  4  5
NO.  TRACK NO.  SINGLE TIME   6  7  8  9 10
 1 0 1        0:00   11 12 13 14 15
                          16 17 18 19 20
```

2 Select the disc.

DISC SKIP

Selected disc No.

```
DISC          1  2  3  4  5
NO.  TRACK NO.  SINGLE TIME   6  7  8  9 10
 1 0 1        0:00
►
```

3 Start edit recording.

CCRS

- The recording level and bias will be adjusted automatically in approx. 90 seconds (variable depending on CD contents), after which recording starts.
- The CD tracks are recorded in the order they are recorded on the CD.
- The tape and CD stop automatically when recording has completed.

Notes

1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. The automatic recording level setting operation in the edit recording utilizes a section suitable for this purpose in the CD present in the CD player.
3. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
4. If the deck is set for one-side recording (⊐), the processing at the tape end is applied only on side A.
5. When the last tune of tape side B is faded out, the ending part of the last but one tune may sometimes be faded out if the space between it and the last tune is short.

UD-753 only
For the operation of UD-703: –[44] to –[51]

To check the edited contents [Remote control unit only]
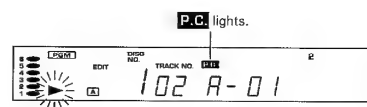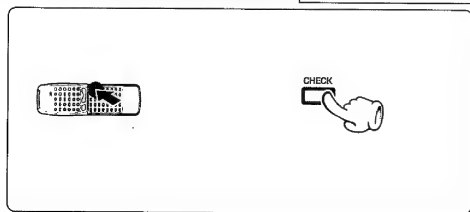
CHECK

P.C. lights.

```
PGM           DISC
         EDIT  NO.  TRACK NO.  PCL        2
         [A]    102  A-01
```

• Each time the key is pressed, the edited CD track Nos. are displayed in order.
• The "P.C." indicator goes off in a few seconds.

To clear the edited contents

Method: 1

P.MODE   or   CLEAR

Method: 2

• The edited data is cleared entirely.

UD-703/753 (En)

60

The system allows you to select 4 kinds of graphic equalizer patterns and 4 kinds of presence (sound field) modes. Select graphic equalizer patterns according to the genre of music and select the presence modes according to the acoustic ambience required.   →[61]～[66]

Demonstration

This feature applies various tone adjustment effects of the graphic equalizer and presence sound fields in sequence with the sound. The display also changes as the applied effects change. Check out the tone adjustment effects both visually and aurally.

The graphic equalizer and presence effects are demonstrated audibly.

❶ Play some music.

❷ Select DEMO.
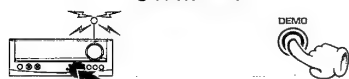
DEMO

Display characters scroll from the right to the left.

Each press of the key switches the demonstration modes as follows.

① DEMO
② OFF Frequency display (demonstration OFF)

Note Demonstration also starts automatically when the power plug is unplugged then plugged while the power is ON or when the power supply has recovered from a failure.
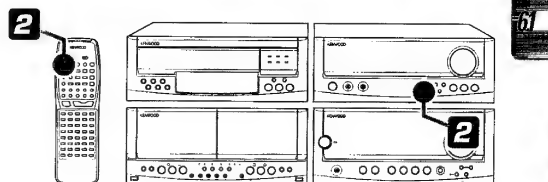
The graphic equalizer patterns can be selected according to the genre of music played.

1 *Play the desired music.*

2 *Select the music category.*
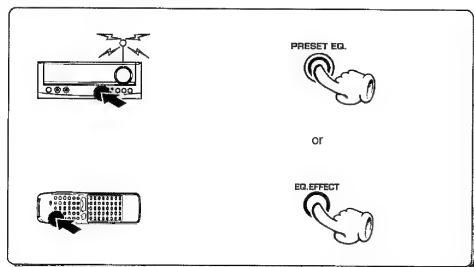
Lights.   Display characters scroll
          from the right to the left.

● Select the category according to the genre or contents of the music played.

Select by pressing repeatedly.

① *POP*   (Popular)
② *ROCK*   (Rock)
③ *JAZZ*   (Jazz)
④ *CLASSIC* (Classic)
⑤ *EQ. OFF* (Equalizer OFF)

PRESET EQ.

or

EQ.EFFECT

Presence effects

62

Various modes for reproducing the effects of presence are available. Select the mode according to the played source or the component in your system.
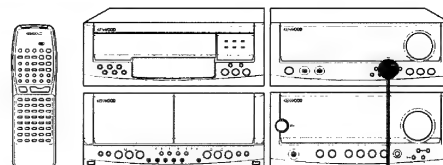
Presence modes

Four kinds of presence effects can be reproduced easily.
→ 66

Types of presence modes

ARENA:
Reproduces a live feeling as if the listener is in the first row of the arena seat.

JAZZ CLUB:
Reproduces a jazz live house where cymbals resound.

STADIUM:
Reproduces an open atmosphere with little reverberations which are usually reflected from the ceiling.

HIT MASTER:
For use in Karaoke singing.

TV

Front speakers
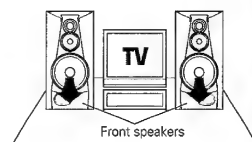
DOLBY 3 STEREO mode → 63

This mode can be used with video software programs recorded with ordinary stereo audio. It improves the acoustic image positioning of words, etc., by applying a processing called directional enhancement and using a center speaker.

Center speaker (optional)

TV

Front speakers
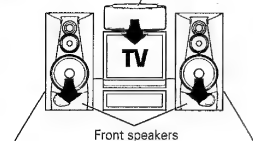
DOLBY PRO LOGIC SURROUND mode → 64

When a videotape or LD software program carrying DOLBY SURROUND mark is played in this mode, the Dolby Surround effect, similar to movie theaters can be enjoyed with full of presence.
The use of surround rear speakers (optional) is required when using this mode.
The presence effect can be further improved by connecting the center speaker (optional).

Center speakers (optional)
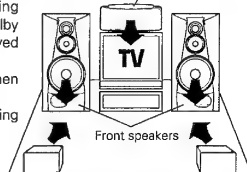
TV

Front speakers

Surround rear speakers (optional)

The Dolby 3 STEREO provides an active center channel to produce a better, stable center image. This mode can be used when listening to stereo video program and music or when surround listening or surround system set-up is not possible.
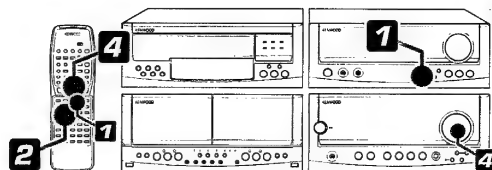
1 Set the Dolby 3 STEREO mode.
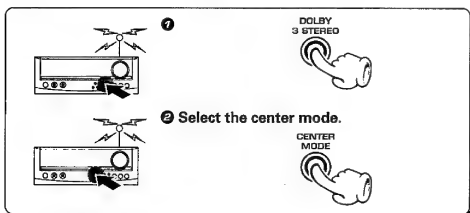
❶

DOLBY 3 STEREO

❷ Select the center mode.

CENTER MODE

Light up

Center mode display

3 STEREO → NORMAL

Each press changes the center modes as follows.

NORMAL : When the center speaker is compact-sized.
WIDE BAND : When the center speaker is medium-or large-sized.

● If you cannot tell whether your center speaker is of the compact or medium size, try both modes and use the one that you like.
● Once the center mode is selected, it is automatically held in memory and will not change until it is set again.

2 Adjust the volume balance.

❶ Output the test tone.

TEST TONE

❷ Adjust so that the volumes of the center speaker is identical to the main speaker volume.

CENTER LEVEL

To decrease   To increase

❸ Stop generating the test tone.

TEST TONE

● Noise-like test tone moves across the speakers every 1.5 second.

① TEST L (Left)
② TEST C (Center)
③ TEST R (Right)

● Be sure to adjust from the listening position.
● When one of the **CENTER LEVEL** keys is pressed, the current volume level is displayed. While the level is displayed, it can be adjusted in 1 dB steps every time one of the keys is pressed.
● The volume level can be adjusted in the range from -10 to +10 dB.
● The center level is stored in memory as the common setting with the DOLBY PRO LOGIC SURROUND mode.

3 Play a video software program.

4 Adjust the listening volume.

To increase

VOLUME CONTROL

To decrease
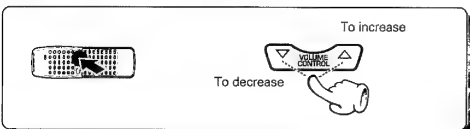
To cancel DOLBY 3 STEREO play

OFF
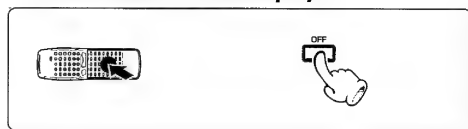
64 When video (LD) software carrying ◻◻ DOLBY SURROUND mark is played, this mode provides the Dolby Surround effect, similar to movie theaters.

---
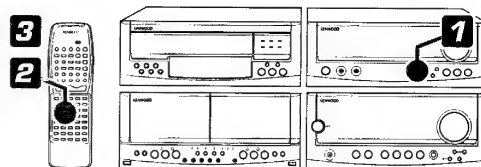
1 Switch *DOLBY PRO LOGIC ON*.
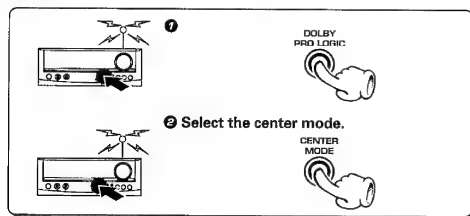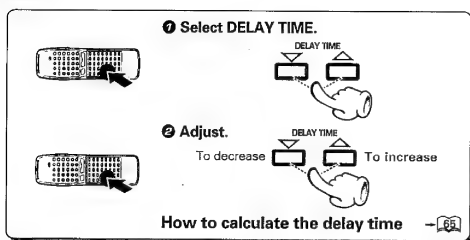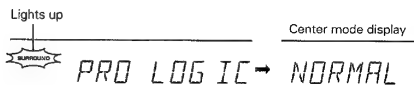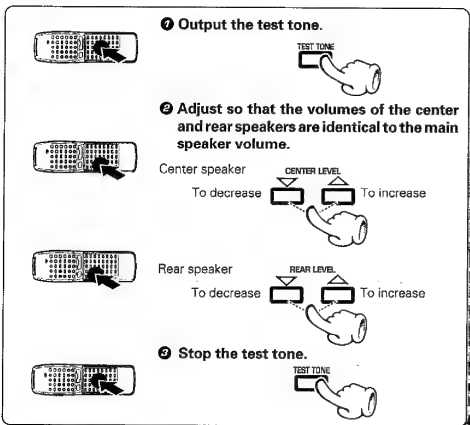
❶

DOLBY PRO LOGIC

❷ Select the center mode.

CENTER MODE

Lights up

SURROUND

Center mode display

$$PRO\ LOGIC → NORMAL$$

Each press changes the center modes as follows.

- NORMAL : When the center speaker is compact-sized.
- WIDE BAND : When the center speaker is medium-or large-sized.
- PHANTOM : When the center speaker is not used.

● If you cannot tell whether your center speaker is of the compact or medium size, try both modes and use the one that you like.
● Once the center mode is selected, it is automatically held in memory and will not change until it is set again.

---

2 Set the delay time.

❶ Select DELAY TIME.

DELAY TIME

❷ Adjust.

DELAY TIME

To decrease   To increase

How to calculate the delay time → 65

Delay time display

$$"DELAY\ \ \ \ 20"$$

● When one of the **DELAY TIME** keys is pressed, the delay time is displayed and it can be varied in 5 steps.
● The delay time can be adjusted in the range from 15 to 30 ms.
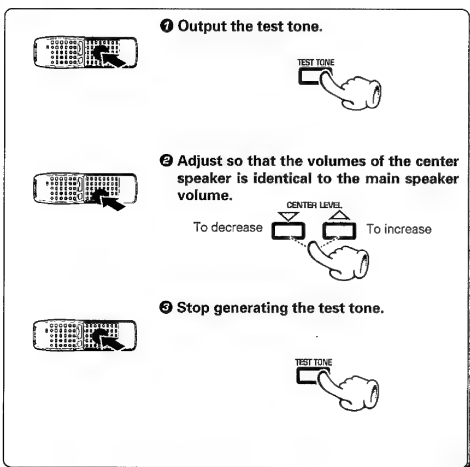● Set to the closest value to the result of delay time calculation.
● Once the delay time has been set, it is stored automatically in memory and will not change until it is set again.

---

3 Adjust the volume balance.

❶ Output the test tone.

TEST TONE

❷ Adjust so that the volumes of the center and rear speakers are identical to the main speaker volume.

Center speaker   CENTER LEVEL

To decrease   To increase

Rear speaker   REAR LEVEL

To decrease   To increase

❸ Stop the test tone.

TEST TONE

● Noise-like test tone moves across the speakers every 1.5 second.

In NORMAL or WIDE BAND mode:

- ① TEST L (Left)
- ② TEST C (Center)
- ③ TEST R (Right)
- ④ TEST S (Surround)

In PHANTOM mode:

- ① TEST L (Left)
- ② TEST R (Right)
- ③ TEST S (Surround)

● Be sure to adjust from the listening position.
● When one of the **CENTER LEVEL** keys is pressed, the current volume level is displayed. While the level is displayed, it can be adjusted in 1 dB steps every time one of the keys is pressed.
● The volume level can be adjusted in the range from -10 to +10 dB.
● The center level is stored in memory as the common setting with the DOLBY 3 STEREO mode.

Dolby Pro Logic Surround play

Before using the Dolby Surround mode, be sure to perform the "Dolby Surround field adjustment" procedure.

---
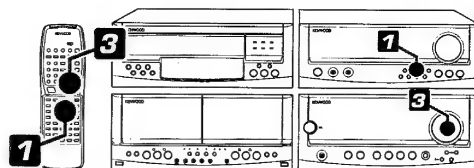
1 Set Dolby Surround mode.
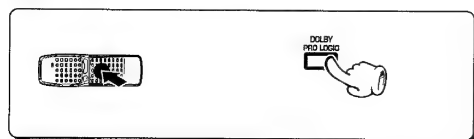
Light up

Center mode display

$PRO\ LOGIC \rightarrow NORMAL$

2 Play video or LD software.

3 Adjust the volume.

To increase

To decrease
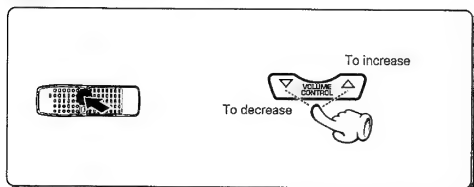
To cancel DOLBY SURROUND play
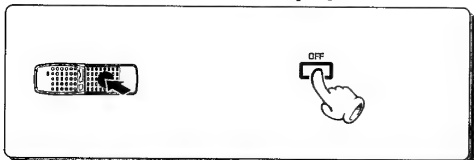
SURROUND goes off.

$DOLBY\ OFF$

How to calculate the delay time

The optimum delay time varies depending on the position where the listener is located. Calculate the optimum delay time referring to the following illustration,

Delay time (ms) = 20 ms + 3 ms × (A - B)
For example, if A = 5 m and B = 3 m;
20 ms + 3 ms × (5 - 3) = 26 ms

Rear speakers

Bm

Am

Front speakers

Use the integral value which is closest to the calculation result.
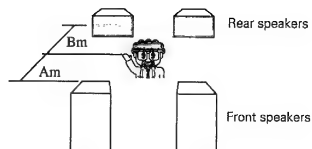
A: Distance from the front speakers
B: Distance from the rear speakers
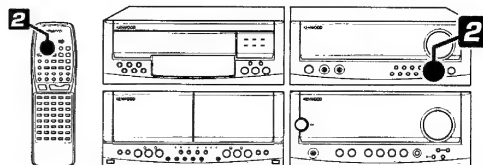
The presence (sound field) mode can be selected according to the music played and to your liking.

1 Play a desired music.

2 Select a presence sound field.
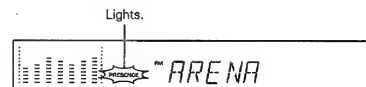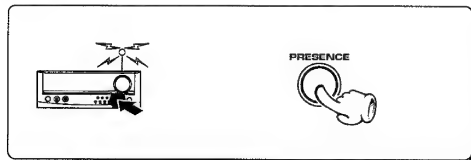
Lights.

```
ili.iliili. ᴾᴹ ᴬᴿᴱ ᴺᴬ
```

● Select the category according to the genre or contents of the music played.

Select by pressing repeatedly.

① ᴬᴿᴱᴺᴬ
  Reproduction of a live feeling as if the listener is in the first row of the arena seat.

② ᴶᴬᶻᶻ ᶜᴸᵁᴮ
  Reproduction of a jazz live house where cymbals resound.

③ ˢᵀᴬᴰᴵᵁᴹ
  Reproduction of an open atmosphere with little reverberations which are usually reflected from the ceiling.

④ ᴴᴵᵀ ᴹᴬˢᵀᴱᴿ (Vocal canceller)
  For use in Karaoke singing.

⑤ ᴾᴿᴱˢᴱᴺᶜᴱ ᴼᶠᶠ (Presence OFF)

To apply echo to the microphone
(Except for U.S.A., Canada, Europe, U.K., and Australia)

DIGITAL ECHO

→ ① *ECHO 1* : Light echo effect.
② *ECHO2* : Strong echo effect.
③ *ECHO OFF*
    Lights.

ECHO 1

---
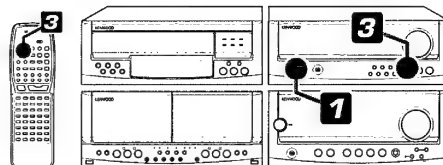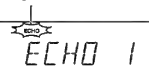
1 *Connect a microphone.*

❶ **Turn the MIC MIXING control fully counterclockwise.**
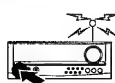
MIC MIXING

❷ **Plug the microphone into the MIC jack.**

MIC 1

● Use a microphone equipped with a mini-plug.
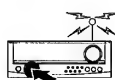
❸ **Adjust the volume balance between the music input and microphone input.**
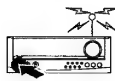
To decrease microphone volume   MIC MIXING   To increase microphone volume

● Set the **MIC MIXING** control to the fully counterclockwise position when the microphone is not used.

2 *Play the music.*

3 *Select HIT MASTER.*
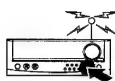
PRESENCE

Select by pressing repeatedly.
→ ① *ARENA*
② *JAZZ CLUB*
③ *STADIUM*
④ *HIT MASTER*
⑤ *PRESENCE OFF* (Presence OFF)
    Lights.

"HIT MAS TE
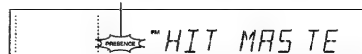
Display characters flow from the right to the left.

● The volume of the vocal parts of the song decreases. However, this effect may not be clear with some songs and discs.

4 *Sing along with the accompaniment.*

● Adjust the overall volume with the **VOLUME CONTROL** knob.
● Press the **OFF** key when Karaoke singing is not required.

To record Karaoke singing

❶ **Perform the procedure above until step 3 .**
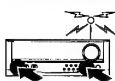
❷ **Start recording.**

– 41

During Karaoke singing using the song recorded on a tape, the Karaoke sound cannot be recorded.

A Karaoke tape can be created by recording the performance while the **MIC MIXING** control is in the fully counterclockwise position.

Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) and a sleep timer system (which works only once) are available.
In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.

Timer reservation is possible for the two types PROG.1 and PROG.2 at the same time.
● Please make reservations with an interval of at least one minute, so that the operation times of PROG.1 and PROG.2 do not overlap.

Timer playback, timer recording (PROG.1, PROG.2)
With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

Al timer playback (PROG.1, PROG.2)
When timer playback starts, the volume increases gradually.

Sleep timer
The power is turned OFF automatically after the specified period has elapsed. → 71

Timer programming

1 Make preparations for the play (recording).

●To listen to radio	●To listen to CD	●To listen to tape	●Playing the auxiliary input source	●For broadcast recordings
The station should be preset before timer programming. → 39	Insert a disc. (Program playback is not possible.) The CD must be loaded in disc bank No. 1; otherwise timer playback will not be possible. (UD-753)	Insert a tape. If tapes are inserted in both decks A and B, playback starts with the tape in deck B.	Set the timer for the component connected to the input jacks such as MD or VIDEO.	Make preparations for recording. → 40

2 Adjust the listening volume.
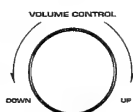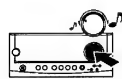
● When recording a broadcast, the listening volume is automatically set to the minimum at the moment the power is turned ON by the timer.

3 Set the POWER switch to OFF (STANDBY) position.

4 Select a program No.

Press immediately after selection.

● The selected program No. lights.
● If a program No. under which a timer program has already been reserved, it is replaced by the new timer program.

Each press of the key switches the program numbers as follows.

① **PROG.1** (Program 1)
② **PROG.2** (Program 2)
③ Normal operation

5 Enter the ON time.
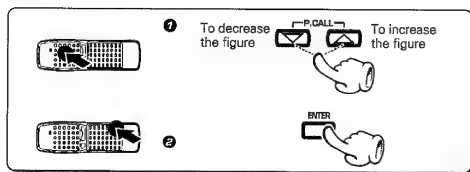
❶ To decrease the figure / P.CALL / To increase the figure

❷ ENTER

● After entering the figure of "hour" with the procedure in ❶ an ❷, enter the figure of "minute" using the same procedure.

$$ON \ TIME \rightarrow AM \ 10{:}00$$

● If you make a mistake, restart from step ❹.

6 Enter the OFF time.
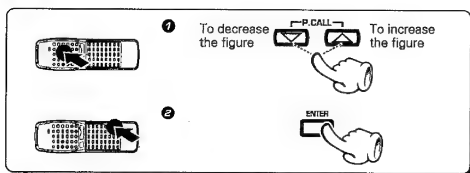
❶ To decrease the figure / P.CALL / To increase the figure

❷ ENTER

● After entering the figure of "hour" with the procedure in ❶ an ❷, enter the figure of "minute" using the same procedure.

$$OFF \ TIME \rightarrow AM \ 10{:}10$$

● If you make a mistake, restart from step ❹.

7 Make the desired reservation.

For timer playback or AI timer playback
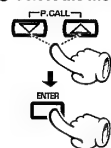
❶ Select the mode.

Select "PLAY" or "AI PLAY".
(Each press alternates them.)

— PLAY
— AI PLAY
— REC

PLAY : At the ON time, playback starts.
AI PLAY : At the ON time, playback starts and its volume increases gradually.

Enter it.

$$PLAY$$

❷ Select the input source.
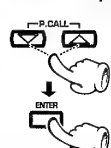
Select the source to be played.
(Each press switches the following).

— TUNER
TAPE
MD
VIDEO 1
VIDEO 2/AUX
— CD

$$CD$$

Enter it.

❸ Select the broadcast station (only when TUNER is selected above).

Select the preset station No.

Enter it.

$$FM \ 15 \ 87.50 \ MHz \ PROG.1$$
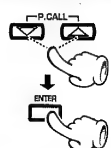
● The station to be received with timer must be preset beforehand. → 39

Timer recording of broadcasts
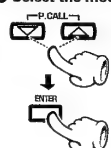
❶ Select the mode.

Select "REC".

— PLAY
AI PLAY
— REC

(Each press alternates them.)

Enter it.

❷ Select the broadcast station (only when TUNER is selected above).
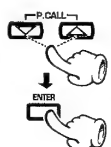
Select the preset station No.

Enter it.

8 Select the timer program No. to be used.

EXE
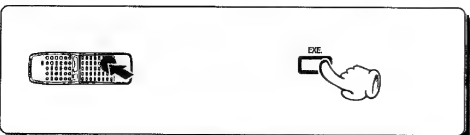
Each press of the key switches the program numbers as follows.

— **PROG.1** .... Execution of program 1 only.
PROG.2 .... Execution of program 2 only.
PROG.1 2 ...... Execution of programs 1 and 2.
— Timer OFF

● The selected program No. lights.
● The timer will not function unless a program No. is selected.

Ensure that the power is OFF

Check the reservation content.

Select the program number to be checked.

PROGRAM

Each press of the key switches the program numbers as follows.

┌─► **PROG.1** (Contents of the program 1 are displayed.)
│   **PROG.2** (Contents of the program 2 are displayed.)
└─   Normal mode

● The reserved contents will be displayed for 3 seconds per item. After this, the previous display content appears again.

To change the reserved contents
Restart the procedure of "Timer programming" from the beginning.

When timer operation is not required

Press so that all PROG. indicators are OFF.

EXE

Each press of the key switches the program numbers as follows.

┌─► **PROG.1** (Only the program 1 is carried out.)
│   **PROG.2** (Only the program 2 is carried out.)
│   **PROG.1 2** (Both programs 1 and 2 are carried out.)
└─   Timer OFF (No timer operation is carried out)

● The reservation contents are held in memory.

To set the same timer program again

Press so that the desired PROG. indicators lights.

EXE

Each press of the key switches the program numbers as follows.

┌─► **PROG.1** (Only the program 1 is carried out.)
│   **PROG.2** (Only the program 2 is carried out.)
│   **PROG.1 2** (Both programs 1 and 2 are carried out.)
└─   Timer OFF (No timer operation is carried out)

● Also prepare the disc or tape and adjust the listening volume.

Note   The reservation contents cannot be cleared. The contents are cleared only when they are changed.

Set the number of minutes after which the power is to be turned OFF.

❶ Turn the power ON.

POWER

❷ Set the time.

SLEEP

● The power is turned OFF automatically after the set time has elapsed.
● Each press decreases the time by 10 minutes. The maximum time that can be set is 90 minutes.

90→80→70...30→20→10→Cancel→90→80...

Lights.

AUTO
FM
PRESENCE *SLEEP* *90*
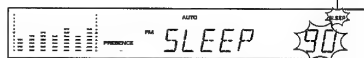
Duration for sleep timer.

To cancel
Turn the power OFF or press the SLEEP key until the sleep time is cancelled.

Notes on cassette tape

Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.

For A side

For B side
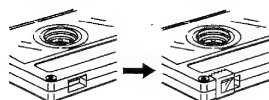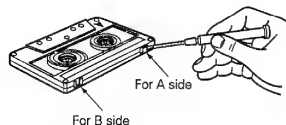
To re-record Apply tape only to the position where the tab has been removed.

To store cassette tapes

Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.
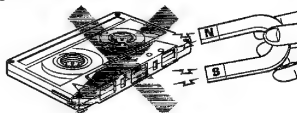
When there is slack in the tape

In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.
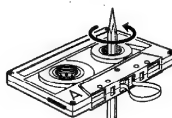
Notes

1. 120-minute cassette tape
   Since a 120-minute cassette tape is very thin, the tape could adhere to the pinch roller or be easily broken. It is recommended that these tapes not be used with this unit to prevent possible damage.

2. Endless tapes
   Do not use an endless tape, as this could damage the mechanism of the unit.

Cleaning the head section

Cotton swab

Capstan

Head

Pinch roller

Tape guides
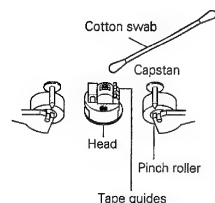
Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

1. Open the cassette holder.
2. Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

Beware of condensation

When water vapor comes into contact with the surface of a cold material, condensation is produced.
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.
This is not a malfunction, however, and the unit should be dried-out. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:
● When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
● When a heater starts operating.
● When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
● When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

Disc handling precautions
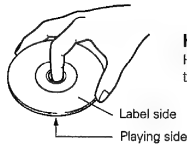
Handling
Hold compact discs so that you do not touch the playing surface.

Label side
Playing side
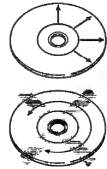
Cleaning
If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.
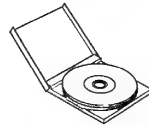
Storage
When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

Caution on disc used
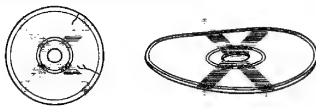
Never play cracked or warped disc.
During playback, the disc rotates at high speed in the player. Therefore, to avoid malfunction, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

Discs which can be played with this unit

CD (12 cm, 8 cm), CDV (only the audio part)
● With CD-G (CD Graphics) discs, this unit can play only the audio.

Dolby noise reduction and HX Pro headroom extension manufactured under license form Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
"DOLBY" and the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,959,590: Canadian numbers 1,004,603 and 1,037,877. "DOLBY", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet	Clock display POWER status (ON or OFF)
Stored contents which are cleared in at least 1 day after power plug is unplugged from power outlet	**Tuner unit** Surround Receiving band Frequency Preset stations Program settings **Cassette deck unit** Transport direction DOLBY NR Reverse mode

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
● Press the ►/II key to check that no disc is present on the tray.

2. Wait a few seconds and verify that the display shown appears.

UD-703	UD-753
no d I SC	no d I SC

3. Turn the power OFF.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

Amplifier unit	: Unplug the power cord from the power socket and, while holding the POWER key, plug the power cord into the socket again.
Tuner unit	: Unplug the power cord from the power socket and, while holding the AUTO key, plug the power cord into the socket again.

● Please note that resetting the microcomputer clears the contents stored in it returns it to the condition when it left the factory.

Amplifier unit, speakers

Symptom	Cause	Remedy
Sound is not produced.	● The speaker cords are disconnected. ● The volume control is set to the minimum position. ● The MUTE switch of remote control unit is switched ON. ● The headphone plug is inserted into the jack. ● The system connection cord is disconnected.	● Connect properly referring to "System connections". ● Adjust to an required volume. →[19] ● Switch MUTE OFF. ● Unplug the headphone plug. ● Check the connection of the system connection cord. →[4]
The character display blinks and sound is not produced.	● The speaker cords are short-circuited.	● Turn the power OFF, remove the short-circuit and turn the power ON again.
Sound is not produced through headphones	● The headphone plug is not inserted fully.	● Insert it into the plug. →[18]
Sound is not produced from the left or right speakers.	● The speaker cords are disconnected. ● The BALANCE is set completely to the left or right channel.	● Connect properly referring to "System connections". ● Adjust the optimum left and right balance. →[19]
Sound is not produced from the surround (rear) speakers or center speaker or their volume is very low.	● The rear or center speaker cords are disconnected. ● The surround play mode is not activated. ● The rear level or center level is set to the minimum volume.	● Connect properly referring to "System connections". ● Activate a surround mode. ● Adjust the rear level or center level. →[64]

Tuner unit

Symptom	Cause	Remedy
The clock display blinks without changing the figures.	● There was a power failure. ● The power cord was unplugged from the outlet.	● Adjust the present time again. →[17] ● Adjust the present time again.
Timer operation is not possible.	● The present time has not been adjusted or there was a power failure. ● The timer ON time and OFF time have not been set. ● The timer execution was not set up.	● Adjust the present time referring to "Clock adjustment". ● Set the timer ON time and OFF time. ● Press the EXE. key to set up the execution. →[69]
Radio stations cannot be received.	● The antennas have not been connected. ● A proper broadcasting band has not been selected. ● The frequency of the station to be received is not tuned.	● Connect antennas. →[6] ● Select a band. →[38] ● Tune to the frequency of the desired station.
Noise interferes.	● Car ignition noise. ● Influence of an electric appliance. ● A TV set is installed near the system.	● Install the outdoor antenna in an apart position from the road. ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	● The frequency of the preset station is not tunable. ● The preset memory has been cleared because the power cord has been unplugged for a long period.	● Preset stations with tunable frequencies. ● Preset stations again. →[39]
Demonstration starts suddenly.	● The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	● This is not malfunction. Press the DEMO key to cancel the demosnstration. →[60]

Cassette deck unit

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key or no operation occurs even when an operation key is pressed.	●The connections cords are wrong. ●The head is dirty. ●The tape is wound too tight due to irregular winding. ●A nonrecorded tape is played.	●Connect properly referring to "System connections". ●Clean the head referring to "Maintenance". →[72] ●Try another tape. ●Play a recorded tape.
No operation occurs even when an operation key is pressed.	●The cassette holder is not closed completely. ●The operation key is pressed immediately after closing the cassette holder. ●The operation key is pressed in less than 4 seconds after turning the power ON. ●A tape is not inserted in the unit. ●The tape is wound too tight due to irregular winding. ●The tape is fully wound to one of the reels.	●Close the holder completely. ●Press operations keys in more than a few seconds after closing the holder. ●Press operation keys after waiting for more than 4 seconds. ●Insert a tape. ●Try another tape. ●Change the tape transport direction or reverse the tape insertion orientation.
The DPSS malfunctions.	●The tape used is not suitable for DPSS, for example the spaces between tunes may be too short.	●Refer to "Skip search". →[36]
The CCRS does not function.	●A recordable tape is not present in deck B. ●A disc is not present in the CD player. ●The disc is dirty.	●Insert a recordable tape in deck B and retry operation. ●Place a disc in the CD player and retry operation. ●Clean the disc, place it in the CD player and try the operation again. →[73]
In dubbing, the tape stops at different moments in decks A and B.	●This is due to the difference in the tape length or characteristics of the mechanisms of two cassette decks.	●Small time difference does not mean a malfunction.
The cassette holder cannot be opened by pressing the eject key.	●The key is pressed during recording or playback. ●The microcomputer is malfunctioning due to external noise.	●Press in stop mode. ●Unplug the power cord and plug it again.
Sound is harsh or high frequencies are not reproduced.	●The head is dirty. ●The tape is stretched or shrunk.	●Clean the head referring to "Maintenance". →[72] ●Try another tape.
Sound is distorted.	●The tape being played was recorded with distorted sound.	●Try another tape.
Noise is noticeable.	●The tape head is magnetized. ●External noise is induced. ●A tape recorded with Dolby NR ON is played with Dolby NR OFF.	●Demagnetize the head referring to "Maintenance". ●Install the system at a distance from other electric appliances and TV. ●Set the Dolby NR to on. →[34]
Sound vibrates.	●The capstans or pinch rollers are dirty. ●The tape is wound irregularly.	●Clean the head referring to "Maintenance". →[72] ●Wind the tape again by fast forwarding, rewinding or playing from an end to the other.
Recording cannot be started by pressing the record key.	●The recording protect tab of the cassette has been broken. ●The cassette holder is not closed completely. ●The TAPE input is selected. ●The tape is fully wound to one of the reels.	●Use a cassette with an unbroken recording protect tab or block the hole. ●Close the holder completely. ●Select the source to be recorded with the input selector key. ●Change the tape transport direction of deck B or reverse the tape insertion orientation.
Volume of the recorded track changed.	●MIC MIXING control knob is moved during recording.	●Fully turn the MIC MIXING control knob to the left.

CD player unit

76

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	● The disc is placed upside down. ● The disc position is displaced. ● The disc is extremely dirty. ● The disc is scratched. ● Dew is condensed on the optics lens.	● Place the disc properly, with the label side facing upward. ● Place the disc properly. ● Clean the disc referring to "Disc handling pre-cautions".　→ 73 ● Try another disc. ● Refer to "Beware of condensation" and re-move the condensation by evaporation. → 72
Sound is not produced.	● The disc has not been placed. ● The player is not put to the play mode. ● The disc is extremely dirty. ● The disc is scratched. ● The connection cords are not inserted securely.	● Place a disc in the CD player. ● Press the ►/Ⅱ key. ● Clean the disc referring to "Disc handling pre-cautions".　→ 73 ● Try another disc. ● Connect securely.
Sound skips.	● The disc is dirty. ● The disc is scratched. ● The player is subject to vibration.	● Clean the disc referring to "Disc handling pre-cautions".　→ 73 ● Try another disc. ● Install the unit in a place not subject to vibra-tions.

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not pos-sible.	● Batteries are exhausted. ● The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between. ● There is no tape or CD set in the component to be played. ● An attempt is made to play the cassette deck which is recording something. ● The A/B switch is not set properly.	● Replace with new batteries.　→ 16 ● Operate the unit inside the remote controllable range.　→ 16 ● Set a tape or CD in the component to be played. ● Wait until the recording ends. ● Set the A/B switch properly.

Notes
1. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection, and not a malfunction.
2. Do not use 120-minute tapes, for the tape is too thin and gets easily tangled.
3. Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

UD-703/753 (En)

Tuner / Amplifier unit (C-F7 / C-F7L / A-F7)

FM Tuner section
Tuning frequency range .... 87.5 MHz ~ 108 MHz
Sensitivity (DIN at 75 Ω)
    MONO .... 1.2 μV / 13.2 dBf
Signal to noise ratio
    (DIN weighted at 1 kHz, 65.2 dBf input)
    MONO .... 65 dB
    STEREO .... 62 dB
Selectivity (DIN ± 300 kHz) .... 64 dB
Stereo separation (DIN at 1 kHz) .... 40 dB
Frequency response .... 30 Hz ~ 15 kHz + 0.5 dB, − 3 dB

MW Tuner section
Tuning frequency range .... 531 kHz ~ 1,602 kHz
Usable sensitivity .... 12 μV / (500 μV / m)
Signal to noise ratio .... 48 dB

LW Tuner section (U.K. only)
Tuning frequency range .... 153 kHz ~ 279 kHz
Usable sensitivity .... 22 μV
Signal to noise ratio .... 45 dB

[General]
Dimensions ....W : 270 mm (10-5 / 8")
                               H : 104 mm (4-1 / 8")
                               D : 334 mm (13-1 / 8")
Weight (net) .... 2.0 kg (4.4 lb)

Amplifier section
Rated power output (1 kHz, 5 % T.H.D. at 8 Ω)
    .... 80 W + 80 W
SURROUND MODE
    CENTER (1 kHz, 5 % T.H.D. at 8 Ω) .... 10 W
    REAR (1 kHz, 5 % T.H.D. at 8 Ω) .... 3 W + 3 W
Signal to noise ratio
    VIDEO 1, 2 .... 87 dB (IHF'66)
Input sensitivity / Impedance
    VIDEO 1, 2 .... 200 mV / 33 kΩ
    MIC .... 2.0 mV / 22 kΩ
Output level / Impedance
    SUPER WOOFER PRE OUT .... 2.0 V / 600 Ω
    TAPE REC .... 200 mV / 47 kΩ

Video section
Input level / Impedance
    VIDEO (composite) .... 1 Vp-p / 75 Ω
                   Input (VIDEO 1, VIDEO 2 / AUX)
Output level / Impedance
    VIDEO (composite) .... 1 Vp-p / 75 Ω
                    Output (MONITOR, VIDEO 1)

[General]
Power consumption... 150 W
Dimensions ....W : 270 mm (10-5 / 8")
                               H : 124 mm (4-7 / 8")
                               D : 336 mm (13-1 / 4")
Weight (net) .... 6.1 kg (13.4 lb)

> **Note** KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

For the U.S.A.
Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For the U.S.A.
CAUTION:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

> KENWOOD CORPORATION
> 2967-3, ISHIKAWA-CHO,
> HACHIOJI-SHI,
> TOKYO, JAPAN

> KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS NO. 21 CFR 1040. 10, CHAPTER I, SUBCHAPTER J.

Location: Back Panel

Tuner / Amplifier unit (C-F7 / A-F7)

78

FM Tuner section
Tuning frequency range .... 87.5 MHz ~ 108 MHz
Sensitivity (IHF) .... 13.2 dBf (1.2 µV at 75 Ω)
Signal to noise ratio at 1 kHz
    MONO .... 75 dB (65 dBf input)
    STEREO .... 68 dB (65 dBf input)
Selectivity (IHF ± 400 kHz) .... 50 dB
Stereo separation (IHF at 1 kHz) .... 40 dB
Frequency response .... 30 Hz ~ 15 kHz + 0.5 dB, – 3 dB

AM Tuner section
Tuning frequency range .... 530 kHz ~ 1,700 kHz
Usable sensitivity .... 12 µV / (500 µV / m)
Signal to noise ratio .... 48 dB

[General]
Dimensions ....W : 270 mm (10-5 / 8")
                                      H : 104 mm (4-1 / 8")
                                      D : 334 mm (13-1 / 8")
Weight (net) .... 2.0 kg (4.4 lb)

Amplifier section
Rated power output

> 80 watts per channel minimum RMS, both channels
> driven, at 8 Ω from 40 Hz to 18 kHz with no more than
> 0.4 % total harmonic distortion.

SURROUND MODE
    CENTER (1 kHz, 1 % T.H.D. at 8 Ω) .... 10 W
    REAR (1 kHz, 1 % T.H.D. at 8 Ω) .... 3 W + 3 W
Signal to noise ratio
    VIDEO 1, 2 .... 87 dB (IHF'66)
Input sensitivity / Impedance
    VIDEO 1, 2 .... 200 mV / 33 kΩ
    MIC .... 2.0 mV / 22 kΩ
Output level / Impedance
    SUPER WOOFER PRE OUT .... 2.0 V / 600 Ω
    TAPE REC .... 200 mV / 47 kΩ

Video section
Input level / Impedance
    VIDEO (composite) .... 1 Vp-p / 75 Ω
                                 Input (VIDEO 1, VIDEO 2 / AUX)
Output level / Impedance
    VIDEO (composite) .... 1 Vp-p / 75 Ω
                            Output (MONITOR, VIDEO 1)

[General]
Power consumption .... 150 W
Dimensions ....W : 270 mm (10-5 / 8")
                                        H : 124 mm (4-7 / 8")
                                      D : 336 mm (13-1 / 4")
Weight (net) .... 6.1 kg (13.4 lb)

Note | KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Specifications

Cassette deck unit (X-F7)

Cassette deck section
Track .... 4-track, 2-channel stereo
Recording system .... AC bias system
(Frequency: 105 kHz)

Heads
A deck   Playback head 1
B deck   Playback / recording head 1
             Erasing head 1

Motors
A deck 1
B deck 1
Fast winding time .... Approx. 110 seconds
(C-60 tape)

Frequency response
Normal tape.......................... 80 Hz to 17,000 Hz, ± 3 dB
CrO_2 tape .... 80 Hz to 18,000 Hz, ± 3 dB
Metal tape........................... 80 Hz to 18,000 Hz, ± 3 dB

Signal to noise ratio
Dolby B NR ON .... 66 dB (Metal tape)
Dolby C NR ON .... 73 dB (Metal tape)
Dolby NR OFF .... 58 dB (Metal tape)
Harmonic distortion .... Less than 3.2 %
(1 kHz, 3rd H.D., 250 nWb / m, Metal tape)
Wow and flutter.. 0.09 % (W.R.M.S.)
DIN .... 0.19 %

[General]
Dimensions ....W : 270 mm (10-5 / 8")
H : 124 mm (4-7 / 8")
D : 300 mm (11-13 / 16")
Weight (net) .... 2.7 kg (5.6 lb)

CD player unit (DP-F7 / DP-MF7)

CD player section
Laser .... Semiconductor laser
Playing rotation .... 200 rpm ~ 500 rpm (CLV)
Frequency response .... 8 Hz ~ 20 kHz, ±1.0 dB
Signal to noise ratio .... More than 95 dB
Total harmonic distortion
.... Less than 0.007 % (at 1 kHz)
Channel separation .... More than 88 dB (at 1 kHz)
Wow & Flutter .... Unmeasurable Limit

[General]
Dimensions ....W : 270 mm (10-5 / 8")
H : 104 mm (4-1 / 8")
D : 320 mm (12-5 / 8")
Weight (net)
DP-F7 .... 2.2 kg (8.8 lb)
DP-MF7 .... 4.0 kg (4.9 lb)

Speakers

(LS-F7)
Enclosure .... Bass-reflex type
Speaker configuration .... 4-Way system
Woofer... 150 mm, cone type
Midrange .... 80 mm, cone type
Tweeter .... 25 mm, Piezo-Electric dome type × 2
Tweeter .... 25 mm, dome type × 1
Impedance .... 8 Ω
Maximum input level .... 100 W
Frequency response .... 45 Hz ~ 20,000 Hz

(LS-F5)
Enclosure .... Bass-reflex type
Speaker configuration .... 3-Way system
Woofer... 150 mm, cone type
Tweeter .... 65 mm, cone type × 1
Tweeter .... 25 mm, Piezo-Electric dome type × 1
Impedance .... 8 Ω
Maximum input level .... 100 W
Frequency response .... 45 Hz ~ 20,000 Hz

[General]
Dimensions ....W : 215 mm (8-7 / 16")
H : 456 mm (17-15 / 16")
D : 278 mm (10-15 / 16")
Weight (net)
LS-F7 .... 6.5 kg (14.3 lb) (1 piece)
LS-F5 ....5.9 kg (13.0 lb) (1 piece)

Note   KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD